

1988 ANTHROPOMETRIC SURVEY **OF U.S. ARMY PERSONNEL: PILOT SUMMARY STATISTICS**

Sarah M. Donelson GEO-CENTERS, INC. Newton Centre, MA 02159

Claire C. Gordon

July 1991

Final Report

April 1989 - February 1990

20030211037

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REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 7704-0188

Public reporting burden for this collection of information is estimated to average 1 nour per response, including the time for reviewing instructions, search, glexisting data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate on thy other aspect of this collection of information, including suggestions for reducing this burden to Washington Headquarters Services, Directorate for information Operations and Epocts, 1215 Jefferson Davis Highway, Suite 1904, Artington, 42 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, 1/2 2202-018.

Davis Highway, Suite 1204, Arlington, VA 22202-4302.	and to the Office of Management and	Budget, Paperwork Reduction Pro	ect (0704-0188), Washington, "C 20503.
1. AGENCY USE ONLY (Leave blank)	2. REPORT DATE	3. REPORT TYPE AN	
	July 1991	Final 1 Apr	89 to 7 Feb 90
4. TITLE AND SUBTITLE			5. FUNDING NUMBERS
1988 Anthropometric Surv Summary Statistics	rey of U.S. Army Pe	rsonnel: · Pilot	PE: 728012.12 PR: OMA AG CODE: OMA 1181
6. AUTHOR(S)			1101 ONA 1101
Sarah M. Donelson* and C	laire C. Cordon		
7 PERFORMING ORGANIZATION NAME			B. PERFORMING ORGANIZATION REPORT NUMBER
U.S. Army Natick RD&E Ce Natick, Massachusetts O1			NATICK/IR-91/040
9. SPONSORING MONITORING AGENCY	NAME(S) AND ADDRESS(ES)	10. SPONSORING / MONITORIN ; AGENCY REPORT NUMBER
	j		
11. SUPPLEMENTARY NOTES *Affil 02159 working on-site un Technical Report NATICK/ Anthropology Research Po	der contract to Na TR-69/044, authore piech. Inc. Yello	tick RD&E Center d in part by ind	 Information from ividuals affiliated with is reprinted in this year
12a. DISTRIBUTION AVAILABILITY STAT	EMEN)		126. DISTRIBUTION CODE
Approved for public na	elease, distributio	on unlimited	
13. ABSTRACT (Maximum 200 words)			

Results of the 1988 anthropomerric survey of U.S. Army pilots are presented in this report in the form of summary statistics and percentile data. These anthropometric data are presented for all male pilots measured during the survey and for a subset of the female data pool who were demographically matched for age and race to the June 1989 U.S. Army female pilot population. A total of 132 standard measurements, 60 derived dimensions, and 48 head and face dimensions are summarized in this report Each dimension is fully described and visual indices are provided to facilitate practical application of the data.

14. SUBJECT TERMS			\ -	15. NUMBER CF PAGES
ANTHROPOMETRY	AVIATORS	DIMENSIONS	PILOTS	614
ANTHROPOMETRIC SURVE	Y HUMAN BODY SIZE	MEN	ARMY	16. PRICE CODE
ANTHROPOMETRIC DATA	MEASUREMENTS	WOMEN		İ
17. SECURITY CLASSIFICATION OF REPORT	13. SECURITY CLASSIFICATION OF THIS PAGE	ON 19. SECURIT OF ABST	Y CLASSIFICATION	20. LIMITATION OF ABSTRAC
UNCLASSIFIED	UNCLASSIFIED	UNCLAS	SIFIED	UL

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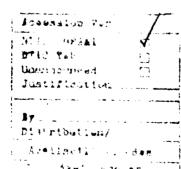
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PREFACE

This publication is another in the series of reports issued in connection with the 1988 Anthropometric Survey of U.S. Army Personnel. The data presented are of male pilots measured in a special sampling at Fort Rucker and ferale subjects who were measured within the U.S. Army Forces Command (FORSCOM) during the general survey. Data comparing the general U.S. Army population with the U.S. Army pilot population are presented as well. The survey was among the most ambitious ever undertaken. It included a multifaceted sampling strategy and a number of newly devised data-gathering techniques and measuring devices, which were used for the first time. A measuring team of 22 persons spent nearly a year collecting data on almost 25,000 screened subjects from which 9,000 subjects were chosen to be fully measured at 11 Army bases. Clearly, a project of this scope could not have been completed without the help of numerous military and civilian personnel.

Within the U.S. Army Natick Research, Development and Engineering Center we gratefully acknowledge the guidance and support received from COL Clinton A. Hodder, COL A.D. Rodgers III, Dr. Robert Lewis, Mr. Edward Levell, Dr. Abner Salant, Dr. Herbert Meiselman, Dr. Lawrence Symington, Mr. Charles Williams, Dr. Carolyn Bensel, and SCM William Wright. These individuals were instrumental in the plan .g, funding and execution of the 1988 Anthropometric Survey.

Also at Natick, LTC Stanley Holgate served as Senior Liaison Officer for the 1988 Anthropometric Survey. LTC Holgate's planning and coordination of the acquisition of both subjects and facilities at each surveyed post were critical to the success of this project. Dr. Robert A. Walker, the 1988 Anthropometric Survey Field Supervisor, was instrumental throughout the entire project. Ms. Beth Ann Holloway, in the capacity of 1LT, served as the Officer in Charge (OIC) at each post and the primary Natick military liaison in LTC Holgate's absence. In her role as OIC, Ms. Holloway kept day-to-day operations functioning smoothly and efficiently.

Successful execution of a complex sampling strategy would have been impossible without the full and active support received from GEN Carl Vuono, Army Chief of Staff, GEN Joseph Palastra, Commander of the Army Forces Command, GEN Maxwell Thurman, Commander of the Army Training & Doctrine Command (TRADOC), GEN Louis Wagner, Commander of the Army Materiel Command, and CSM William B. Tapp, Jr., Army Materiel Command.

From the U.S. Army Troop Support Command, we thank MG John E. Long, MG Henry G. Skeen (retired), BG Charles E. St. Armaud, BG Leo J. Pigaty, and CSM Henry L. Thornton for their personal encouragement and active support of this survey during its planning, coordination, and execution.

We also thank the command groups and staffs of the following organizations, which provided test subjects despite their heavy mission commitments: the U.S. Army Health Services Command, I Corps, III Corps, the XVIII Airborne Corps, the U.S. Army Chemical School, the U.S. Army

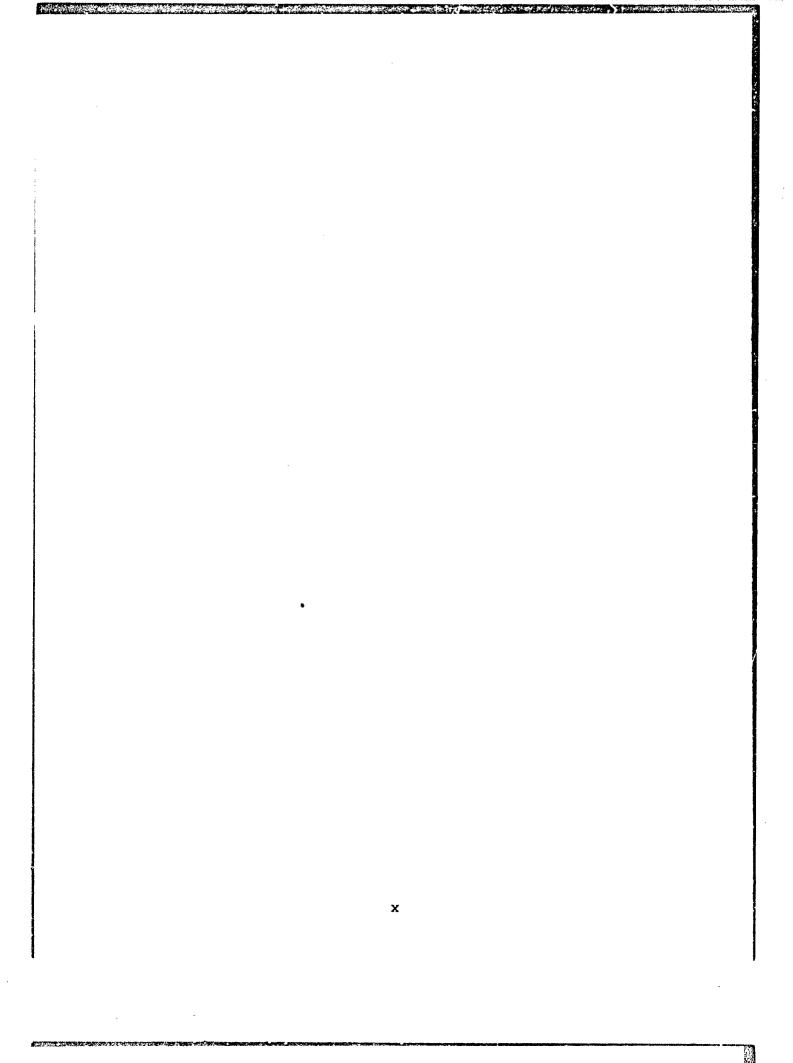
Military Police School, the U.S. Army Signal Center, the U.S. Army Aviation Center, the U.S. Army Training Center at Ft. Jackson, and the U.S. Army Training Center at Ft. Dix. Within each of these organizations were liaison officers and noncommissioned officers responsible for coordination of all the logistic details needed to actually execute the survey at each of the host installations. These liaison personnel made the successful execution of a difficult project possible: MAJ John Roper and CPT Raphael Deegan, Ft. McClellan; MAJ Lawrence Hall and SFC Norman Homan, Ft. Campbell; COL Robert Smoot and SCM Walter Taylor, Ft. Bragg; CPT Joel Weeks, Ft. Stewart; CPT Michael Robinson, Ft. Ord; LTC James Gildersleeve, MAJ Marguerite Campbell and CPT Joseph Dirac, Defense Language Institute; MAJ James Taylor, Ft. Lewis; MAJ James R. Sisson and MAJ Arne W. Owens, Ft. Hood; LTC Dees Stallings, Ft. Gordon; CPT Mark Becker, Ft. Jackson; COL James B. Sauer and CPT Anthony Shannon, Ft. Rucker; MAJ Dale E. Graham and CPT George Trotter, Ft. Dix.

Special thanks are owed to Mr. Ignatius Stefaniw, LTC David Kidroske, and CPT Betty M. Gieseke of the U.S. Army Training & Doctrine Command for their patient and persistent support in the selection and coordination of TRADOC installations for participation in the 1988 Anthropometric Survey.

The data reported in this manuscript were collected by a specially recruited and trained measuring team who were under supervision of Anthropology Research Project, Inc. Throughout a year of fieldwork, the team members maintained the highest of professional standards. Ms. Jeryl Neff, the team leader, was responsible for overseeing data collection quality and for the maintenance of crew morale and professionalism. Field crew members were: Donna Acton, Scott Anspach, Gary Ball, Karen Ball, Cindy Blackwell, Mary Bloom, Jeffery Bonner, John Crafts, Lee Gasaway, Lori Hedberg, Mike Herzing, Chuck Janini, Julie Janini, Anne Kaminski, Sara Kelly, Shirley Kristensen, Lisa Love, Jill Parks, Lisa Prenger, Amy Pulse, Lisa Richards, Robyn Tebbetts, Timi Trawick, and Phillip Walker.

Invaluable editorial comments were made on this manuscript by Ms. Marcia Lightbody, Natick Technical Editor, and Drs. Carolyn Bensel, Kenneth Parham and Robert Walker of the Materiel Systems Human Factors Branch, Behavioral Sciences Division, Soldier Science Directorate.

Finally, the authors would like to acknowledge Gary Ball and Alice McKinney for the drawings included in the manuscript. Photography credits go to Tebby Stanley and Denny Eagleson. Nancy Bell is greatly appreciated for her invaluable assistance.



1988 ANTHROPCMETRIC SURVEY OF U.S. ARMY PERSONNEL: PILOT SUMMARY STATISTICS

CHAPTER 1

INTRODUCTION

All U.S. military and many foreign services compile and maintain extensive collections of body-size information used primarily to guide the design and sizing of clothing, personal protective equipment, work stations, and computer-generated human models. In order to be effective, such a data base must be updated periodically to accurately reflect the body sizes and proportions of the military population it purports to represent.

It was apparent in the mid-eighties that the Army's anthropometric data base had serious deficiencies that limited its applicability for current and future sizing, design, and procurement. 1,2,3 A comprehensive body-size study of U.S. Army men and women was undertaken in 1987-1988 to correct these deficiencies. The goal of the 1988 Anthropometric Survey was to acquire a large body of data from comparably measured males and females to serve the Army's current design and engineering needs, as well as those anticipated well into the future.

Several new and improved methodologies in the areas of sampling, instrumentation, and verification were used. These included: a complex sampling plan designed to produce a data base that can be adapted to changing population demographics; simultaneous collection and processing of male and female data for the creation of an integrated data base; the use of portable conjuters for data entry and first-level editing in the field; and the development and use of new measuring devices for the collection of head and hand data. 5,6

A year of planning preceded the survey. During this time, hundreds of candidate dimensions were examined to arrive at the final selection, which included 132 directly measured dimensions and three-dimensional coordinates of 26 points on the head and face. Over 8,000 hand photos were also taken as a permanent resource for future needs.

Because of demographic changes in the population of U.S. Army pilots, and changes in pilot requirements in the last several years, the distributions of anthropometric dimensions among Army pilots have changed as well. Therefore, as a part of the overall 1988 Anthropometric Survey sampling strategy, a subsample of U.S. Army pilots was chosen for complete body measurement. The last anthropometric survey of U.S. Army aviators was conducted in 1970, some 18 years or the equivalent of a military generation ago. Not only was the 1970 sample younger than today's aviators, but the 1970 sample also included machinists, door gunners and mechanics which are nonpilot aviators. As can be seen in Tables 1 and 2, the height and weight distributions of 1988 nonpilot aviator personnel do not significantly differ from those of the general U.S. Army population. Therefore, all equipment and clothing that is intended for

use by all aviators should be designed using the data that are presented in either the 1988 Anthropometric Survey of U.S. Army Personnel: Summary Statistics Interim Report or the 1988 Anthropometric Survey of U.S. Army Personnel: Methods and Summary Statistics 10,11.

TABLE 1. Comparison of Stature Between 1988 Nonpilot Aviators and 1988 General U.S. Army

	Nonpi:	Mean Values Nonpilots N=872		Values al Army 1754	Difference Between	P-value for
Dimension	<u> </u>	SD	<u> </u>	SD	Means	Difference
Stature (c)	175,76	6.81	175.88	6.73	0.12	0.675

TABLE 2. Comparison of Weight Between 1988 Nonpilot Aviators and 1988 General U.S. Army

Mean Value Nonpilots _ N=812		lots	Gener	Values al Army 1627	Difference Between	P-value for
Dimension	X	SD	<u> </u>	SD	Means	Difference
Weight (kg)	78.01	11.09	78.75	11.01	0.74	0.120

On the other hand, because pilots must meet anthropometric criteria which are not required of other nonpilot aviators, the pilot sample is anthropometrically distinct from the general Army population (see Tables 3 and 4). These pilot data have been sampled and summarized separately so that those material systems to be used <u>solely</u> by pilots may take their specific anthropometric distributions into consideration.

In addition to anthropometric changes in Army pilots, there have also been shifts in the demographic composition of the U.S. Army pilot population. Between 1970 and 1980, the percentage of women in the Army increased nearly sevenfold from 1.46% to 9.85%. Today, women make up 11.06% of Army personnel, 12 and with each passing year, more jobs are filled by women. The number of female aviators and pilots has also increased during recent years. Consequently, clothing, protective equipment, and workspaces, originally designed to accommodate males only, must be modified and redesigned to accommodate the larger variations represented by an integrated male/female population. Because only a

TABLE 3. Comparison of Selected Anthropometric Dimensions Between 1988 Male Pilots (N=487) and 1988 General U.S. Army Males (N=1774)

DIMENSTON	X	SD	1ST%	5TH%	95TH%	99TH%	p-value*
Stature 1988 Pilots 1988 General Army	177.10* 175.58		161.85 160.27	166.33 164.69	187.75 186.65	191.44 190.87	0.001+
Weight 1988 Pilots 1988 General Army	79.97 78.49	9.63 11.10	60.22 55.27	65.32 61.59	97.17 98.07	103.73 107.71	0.004
Crotch Height 1988 Pilots 1988 General Army	84.18 83.72	4.23 4.62	75.12 73.16	77.52 76.44	91.51 91.64	94.00 94.64	0.038
Sitting Height 1988 Pilots 1988 General Army	92.95 91.39	3.32 3.56	84.40 82.79	87.23 85.45	98.18 97.19	100.35 99.14	0.001+
Span 1988 Pilots 1988 General Army	182.79 182.31	7.74 8.19	166.32 164.79	170.21 169.31	195.61 196.03	200.13 201.62	0.227
Arm Length 1988 Pilots 1988 General Army	79.20 78.97	3.62 3.86	71.72 70.43	73.49 72.85	85.44 85.58	87.61 88.23	0.229
Bideltoid Breadth 1988 Pilots 1988 General Army	49.57 49.18	2.31 2.59	43.93 43.40	45.91 44.99	53.47 53.48	54.79 55.16	0.001+
Buttock-Knee Length 1988 Pilots 1988 General Army	61.86 61.64	2.65 2.99	56.09 55.07	57.79 56.90	66.52 66.74	68.16 68.69	0.114
Chest Depth 1988 Pilots 1988 General Army	25.02 24.32	1.95 2.15	20.99 19.67	21.86 20.96	28.25 28.04	29.43 29.60	0.001+
Eye Height Sitting 1988 Pilots 1988 General Army	80.99 79.20	3.27 3.42	72.10 71.18	75.46 73.50	86.22 84.80	88.19 86.93	0.001+
Forearm-Forearm Brdth 1988 Pilots 1988 General Army	55.49 54.61	3.91 4.36	47.22 45.12	49.10 47.74	61.99 62.06	66.65 65.27	0.001+
Functional Grip Reach 1988 Pilots 1988 General Army	75.12 75.07	3.50 3.68	68.16 67.26	69.29 69.28	80.79 81.31	84.45 84.03	0.747
Functional Leg Length 1988 Pilots 1988 General Army	108.30 108.21	10.55 5.10	97.06 96.90	100.62 100.19	117.56 116.89	119.75 120.33	0.033
Hip Breadth 1988 Pilots 1988 General Army	34.90 34.18	1.86 2.03	31.20 29.64	32.03 30.97	38.09 37.65	39.28 39.32	0.001+
Thigh Clearance 1988 Pilots 1988 General Army	16.79 16.82	1.10 1.26	14.31 14.09	14.99 14.86	18.61 18.99	19.35 20.07	0.548

^{***}For t-test of differences between means
+ All values in cm, except Weight in kg
+ Significant difference at p≤0.05 using Bonferroni's correction for multiple comparisons

TABLE 4. Comparison of Selected Anthropametric Dimensions Between 1988 Female Pilots (N=334) and 1988 General U.S. Army Females (N=2208)

	•	•			_		•
DIMENSION	72	SD	1573	51H%	95TH%	99TH%	p-value*
Stature 1988 Pilots 1988 General Army	168.02 ^{**} 162.94	4.52 6.36	157.29 148.32	161.17 152.78	175.95 173.73	178.80 178.04	0.001+
Weight 1988 Pilots 1988 Gereral Army	65.51 62.01	8.54 8.35	47.84 45.24	52.64 49.64	80.73 76.98	89.18 84.70	0.001+
Crotch Height 1988 Pilots 1988 General Army	79.17 77.14	2.71 4.41	75.06 67.00	75.54 70.02	83.91 84.58	87.15 88.14	0.001+
Sitting Height 1988 Pilots 1988 General Anmy	88.28 85.20	2.80 3.49	81.46 77.48	83.58 79.53	92.78 91.02	94.93 93.31	0.001+
Span 1988 Pilots 1988 General Army	170.76 167.19	4.83 8.13	163.91 148.81	164.55 154.21	180.08 180.86	183.58 186.45	0.001+
Arm Length 1988 Pilots 1988 General Arm;	73.98 72.37	2.45 3.84	69.71 63.74	70.57 66.18	78.39 78.79	80.59 81.59	0.001+
Bideltoid Breadth 1988 Pilots 1988 General Army	43.92 43.26	2.22	38.36 38.03	40.38 39.70	47.65 47.17	48.86 49.21	0.001+
Buttock-Knee Length 1988 Pilots 1988 General Army	60.02 58.89	2.08 2.96	55.90 52.18	56.80 54.21	63.57 63.98	64.32 66.02	0.001+
Chest Depth 1988 Pilots 1988 General Army	24.30 23.94	2.35 2.11	19.49 19.71	20.67 20.86	28.31 27.78	30.69 29.54	0.010
Eye Height Sitting 1988 Pilots 1988 General Army	76.85 73.87	2.70 3.32	70.56 66.40	72.28 68.46	81.18 79.43	83.16 81.59	0.001+
Forearm-Forearm Brdth 1988 Pilots 1988 General Army	48.03 46.85	3.59 3.47	38.92 39.42	42.42 41.47	54.28 52.84	57.21 55.95	0.001+
Functional Grip Reach 1988 Pilots 1988 General Army	70.08 68.61	2.42 3.39	65.25 61.51	65.38 63.19	74.32 74.36	76.35 76.97	0.001+
Functional Leg Length 1988 Pilots 1988 General Army	103.80 101.20	3.27 4.91	96.84 89.76	99.01 93.25	109.66 109.42	111.79 112.82	0.001+
Hip Breadth 1988 Pilots 1988 General Army	35.59 34.27	2.18 2.24	30.63 29.58	31.97 30.78	39.20 38.15	40.64 40.00	0.001+
Thich Clearance 1988 Pilots 1988 General Army	15.95 15.89	1.26 1.21	13.47 13.38	14.05 14.04	18.16 18.02	19.45 19.01	0.459

^{**}For t-test of differences between means

* All values in cm, except Weight in kg

* Significant difference at p<0.05 using Bonferroni's correction for multiple comparisons

handful of female pilots were available for measurement during the 1988 Anthropometric Survey, a female pilot theoretical working data base was created for use in material design. The theoretical data base consists of a subset of the 1988 Anthropometric Survey female data base that meets 1988 anthropometric criteria for entry into pilot training, and that matches the 1988 female pilot population in age and racial/ethnic distribution.

SELECTION OF SURVEY DIMENSIONS

The dimensions summarized in this report are identical to those summarized earlier for the general U.S. Army population. 10,11 To develop the list of dimensions measured in this survey, a comprehensive list of candidate measurements was reviewed and assessed in several ways.^{2,3} First, a list of 298 dimensions measured in one or more of 32 anthropometric surveys of men and women, both military and civilian, was circulated among persons who represented many decades of experience in applying anthropometric data to the design of military systems, equipment, and clothing. Each was asked to choose from the list those dimensions considered essential or useful in his or her work and to supplement his or her choices with additional dimensions not found on the list. For some applications, such as the design of three-dimensional head, face, and body forms, individuals who had been responsible for their development were solicited to determine what specific dimensions had been incorporated in these forms and what other dimensional data would have been useful if they had been available. A second line of inquiry involved a questionnaire survey administered to 22 Army and Air Force clothing designers and patternmakers to learn what dimensions they required for their work.

These inquiries resulted in a candidate list which included variables measured in previous surveys as well as dimensions not previously measured but identified as being needed by users of anthropometric data for design purposes. From this list, 12 application categories (e.g., clothing design, work space design, human analogue design) were identified and 132 dimensions believed to be most useful for meeting these needs were selected to be measured directly on each subject. As noted, another 60 dimensions were derived from the direct measurements. The 26 three-dimensional coordinates obtained from an automated headboard device, which was developed for use during the 1988 Anthropometric Survey, were used to calculate an additional set of 48 head and face dimensions. The application categories and their corresponding dimensions appear in Appendix A.

THE PILOT SAMPLE

The pilot sample is composed of 821 subjects, 334 females and 487 males. These subjects were measured for 132 anthropometric dimensions, and filled out biographical questionnaires to provide information such as age, race, ethnicity and flight classification. All of the males included in this sample are U.S. Army pilots. Because so few female pilots were measured during the 1988 Anthropometric Survey, a female pilot working data base was created which is demographically matched to the female Army pilot population and which meets the 1988 anthropometric criteria for

entrance to flight school. The sampling strategies which were used for the pilots and for the creation of the female working data base are described in detail in Chapter III.

HOW TO USE THIS REPORT

The working data in this report are given in Chapters IV, V, and VI, which include summary statistics of the standard dimensions, the derived dimensions, and the headboard measurements, respectively. Each dimension is described and illustrated. Summary statistics are reported separately for males and females. Visual indices precede the statistical material in each chapter and are designed to help readers identify and locate dimensions by their anthropometric designations.

The landmarks used to define the origin and termination of the measurements made in this survey are listed and briefly described in Chapter II. This chapter also summarizes the operational aspects of the survey and includes descriptions, illustrations, and sources of the instruments used. A full explanation of the sampling strategy which appears in Chapter III includes a number of tables that describe the demographic character of the pilot working data base.

Appendix B contains a brief explanation of the summary statistics used to report the reasurement data in Chapters IV, V and VI. An assessment of the emparability of measurements obtain this survey with measurements from other major anthropometric sure appears in tabular form in Appendix C. Finally, a glossary of terms (Appendix D) and an index are included to further help the reader understand the terminology used in this report and locate dimensions of interest. Sections of this chapter were taken from the 1988 Anthropometric Survey of U.S. Army Personnel: Methods and Summary Statistics.

CHAPTER II

THE SURVEY

SUBJECT PROCESSING AND MEASURER TRAINING

In order to measure almost 9,000 soldiers, including the male and female pilot working data base subjects, at 11 Army posts around the country in the 12 months allotted to the task, considerable advance planning took place both by the contractor, Anthropology Research Project, Inc., and the U.S. Army Natick Research, Development and Engineering Center (NATICK). In preparation for assembling a measuring team, project personnel prepared a training manual 13 designed to serve as the primary instructional guide for members of the team. This handbook contained detailed written and illustrated instructions for marking and measuring subjects, and explained the operation and maintenance of the computer data—entry system, the automated headboard, and the hand photometric system.

A streamlined procedure was devised for measuring an average of 40 subjects a day. The measurements were divided into groups of approximately 22 each, based on principles of time/motion efficiency. Dimensions assigned to a given measuring station were those that could most easily be measured in sequence without excessive repositioning of subjects, and those that required a minimum of picking up and laying down of instruments. Dimensions were also grouped in such a way that the time required to measure all dimensions at each station was approximately equal. Two landmarking stations were similarly established, as were in-and cut-processing stations. Figure 1 illustrates the subject flow plan.

In the meantime, all the necessary arrangements were made at Army posts where measuring teams were to work for periods ranging from ten days to eight weeks. Although the vast majority of the male pilots were measured at Fort Rucker, the female subjects who comprise the theoretical female pilot working data base were selected for measurement at the following 11 posts. The itinerary was as follows:

Fort McClellan, Alabama Fort Campbell, Kentucky Fort Bragg, North Carolina Fort Stewart, Georgia Fort Ord, California

Fort Lewis, Washington

Fort Hood, Texas Fort Sackson, South Carolina Fort Gordon, Georgia Fort Rucker, Alabama Fort Dix, New Jersey

In July of 1987 a measuring team of 22 persons began an intensive four-week training period prior to their deployment in the field. Early in the training period, team members were assigned to the landmarking or measuring station at which they would work for the duration of the survey. Thus, each team member, under the instruction of professional anthropometrists, concentrated for about three weeks on learning to locate and draw the landmarks or measure the dimensions for which he or she would be permanently responsible.

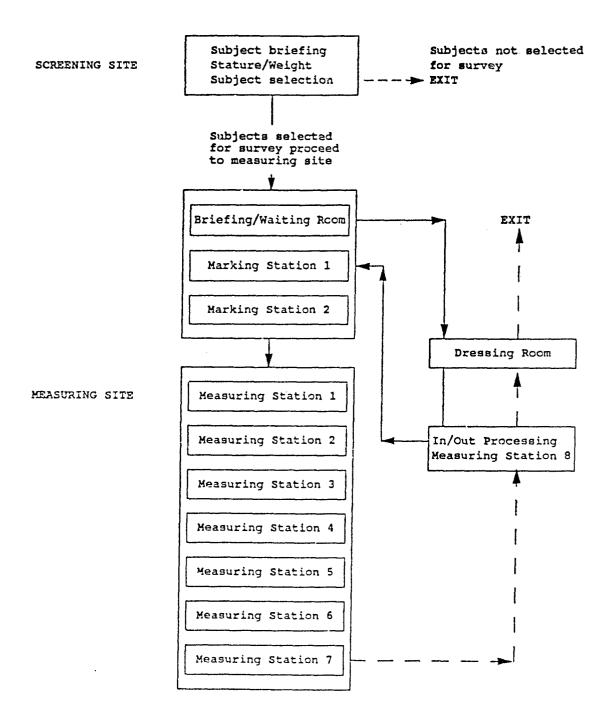


Figure 1. Flow chart for subject selection and processing.

Two people were assigned to each measuring station, one to serve as a measurer and one as a recorder; pairs of team members alternated these functions throughout each day. Two women were permanently assigned to five of the measuring stations. A male team alternated with a female team at the station where most dimensions between the waist and knees were measured, depending on whether subjects were men or women. These same teams alternated assignments to the headboard/hand photo station. Male and female marking personnel at the landmarking stations also changed from day to day, depending on whether subjects were men or women. They alternated as in- and out-processing clerks when members of the opposite sex were being marked.

Subjects were selected for measurement in accordance with procedures described in Chapter III. Essentially, they were selected either from unit rosters before the measuring team arrived at a particular post, or from units assembled at a subject-screening site. There, soldiers were briefed on the general purposes of the survey, and filled out forms giving demographic and biographical information about themselves; the data form is attached as Appendix E. At this site, soldiers were measured for Stature and Weight, and were selected or rejected for inclusion in the fully-measured sample by means of a computer program designed to meet the objectives of the sampling strategy.^{2,4}

Soldiers who had been put on the roster from their units for full measurement bypassed the screening formation. These subjects completed biographical forms at the measuring site where they joined screened subjects in a full briefing, which included a description of the measuring procedures to be carried out. After the briefing, all soldiers were given nylon running shorts in which they were measured. Men were measured bare—chested. Women were measured in their bras, and were issued T-shirts to wear while moving between measuring stations and at stations where upper body exposure was not required.

COMPUTER PROCEDURES

One of the features that distinguishes this survey from its predecessors is the use of portable computers for data entry in the field. 4 Computers were used for three reasons:

- Entering the data onto electronic media saved time by eliminating hand recording of data. Data were ready for analysis much more quickly than in the past. This also eliminated transferring handwritten data as a source of error.
- The computers were equipped with custom-designed software that edited data values as they were entered. In this way, if a questionable value was identified by the software, the measurers could check it while the subject was still present. Thus, the data coming in

from the field contained far fewer errors of measurement or entry than in past surveys and a smaller number of questionable values about which the data editors had to make decisions.

- The floppy diskettes used in the computers could hold much more data than paper forms of the same size.

Portable personal computers were independently operated at each measuring station. Each subject's data were kept together on a single floppy diskette, which the subject carried from station to station as he/she moved through the measuring process. The subject received the diskette at an in-processing station, at which the subject's number, sex, and date were written onto the diskette. Each subject was measured and the recorder entered the data into the station's computer. The anthropometric data from that station were then written onto the subject's diskette and onto a station diskette, which kept a record of each person measured at that station. Each station's computer also printed the data from that station onto a paper form which the subject carried from station to station. Both the printed form and the station diskette served as backups in case of loss or damage to the subject's diskette. After the subject had been measured, all the data from the diskette were read at the out-processing station to verify that the subject had visited each station, and that the data from each station were recorded properly on the diskette. Data from the subject's biographical questionnaire were also added to the subject diskette at the out-processing station.

The editing routines in the computer software were based on procedures which had been used successfully for some time by the contractor, Anthropology Research Project, Inc., in a number of previous military surveys. The approach is essentially two-phased. A value is first checked against the highest value and the lowest value measured for that variable. If the measured value is higher than the highest value to date, or lower than the lowest value to date, an audible signal is given, which instructs the measurer to take the measurement again. This approach is very effective in screening out wildly aberrant values resulting from a misassembled instrument, misreading an instrument, transposing digits, or misentering a value by 100 or 1000. After each dimension at a station was measured, the second phase of data editing began. The computer software contained a series of multiple regression equations in which the value for each dimension was predicted from the values of two other dimensions measured at that station. The measured value for a given subject, for a given dimension, was compared to the predicted value. If the measured and the predicted value differed by more than a preset amount, the audible signal was given, and the measurer was asked to remeasure that dimension. In that way, values which were not aberrant for the population as a whole but were disproportionate for that individual were identified and checked.

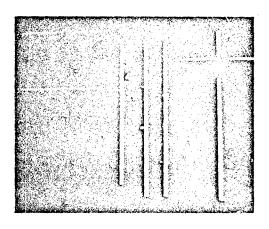
The computer data entry and editing system, including program source code listings, is completely described in Churchill et al., 1988.

ANTHROPOMETRIC INSTRUMENTS

Several standard anthropometric instruments as well as a few unique instruments were used in this survey. The standard instruments, all of which are available from Seritex, Inc., 450 Barell Avenue, Carlstadt, NJ 07072, included:

GFM anthropometer	Catalogue No.	101
base plate	Catalogue No.	101F
sliding caliper	Catalogue No.	104
sliding caliper (Poech type)	Catalogue No.	114
spreading caliper, rounded	Catalogue No.	106
Bicondylar Vernier caliper	Catalogue No.	604
(Holtain caliper)		
steel measuring tape (2-meter)	Catalogue No.	110

These instruments are illustrated in Figures 2 and 3. In Figure 2 the anthropometer is illustrated in the two modes in which it was used.



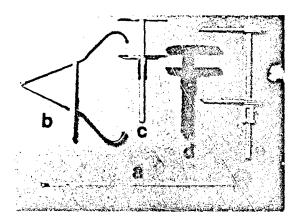


Figure 2. Anthropometer:

a. beam caliper;

b. four sections of the basic anthropometer.

Figure 3. Calipers and tape:

a. steel tape;
b. spreading caliper;
c. sliding caliper;
d. Holtain caliper;
e. Poech caliper.

The pupillometer for measuring interpupillary breadth is shown in Figure 4. This commercial device can be obtained from: Multi-Optics Corporation, 1153 D. Triton Drive, Foster City, CA 94404.

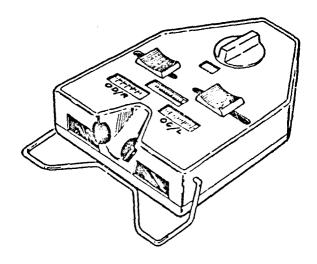


Figure 4. Pupillometer.

Measuring instruments that were modified or created for the survey include: a functional leg length anthropometer, wall scales, foot measuring boxes, a modified sliding caliper, and a modified tape. Several instruments for use in locating landmarks were also devised. These include a buttock plate, a smooth vertical board that is moved along a table to establish the posterior buttock point of a seated subject (see photograph on page 124).

Other devices were specially designed to help position subjects correctly. The leg leveller, for example, consists of two horizontal flat boards approximately 1 foot by 1.5 feet in size. Sandwiched between the boards are two scissor jacks situated at right angles to each other. When the jacks are raised in concert, the upper board is raised, parallel to the floor. The lower board rests on the floor. The purpose of the device is to raise or lower the legs of the seated subject so that the thighs are parallel to the floor (see photograph on page 124).

The functional leg length anthropometer is shown in Figure 5. This instrument consists of a standard GPM (early series) anthropometer mounted vertically on a sole plate.

Two wall graphs were used to measure arm reaches. Both wall graphs are of graph paper scaled in millimeters and sealed in mylar sheeting. The orientation of the graphs is shown in Figure 6 with reference to the corner near which it is mounted.

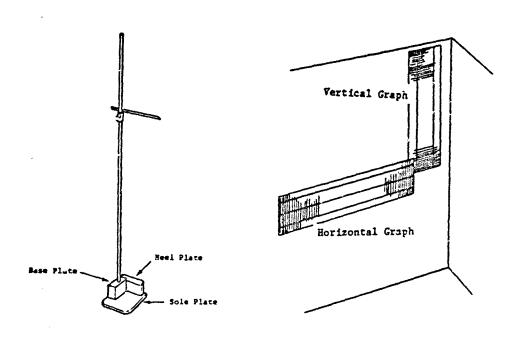


Figure 5. <u>Functional leg length</u> anthropometer.

Figure 6. <u>Orientation of wall-mounted graphs</u>.

The foot measuring boxes are made of three-millimeter aluminum stock. Millimeter graph paper affixed to the standing surfaces is covered with Plexiglas R*. Used in measuring linear dimensions of the foot, the two footboxes, a left and a right, are shown in Figure 7.

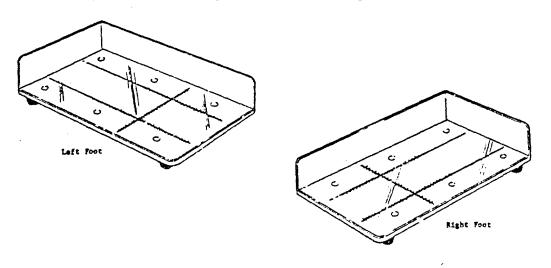


Figure 7. Foot measuring boxes.

^{*}Citation of trade names in this report does <u>not</u> constitute endorsement or approval of use of a product or item.

A standard GPM (early series) sliding caliper was modified to use in measuring lateral malleolus height. The sliding caliper was modified by removing the fixed arm and substituting a 77-mm arm for the 51-mm arm. The modified instrument is shown in Figure 8.

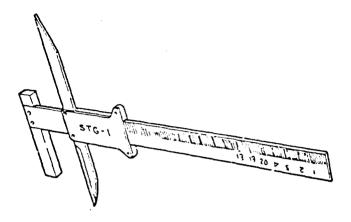


Figure 8. Modified sliding caliper.

The modified tape, used for two posterior crotch with measurements, is made by attaching a dowel to the zero end of a star .d tape as a handhold. A triangular plastic pennant is affixed at the zero mark of the tape. The instrument is illustrated in Figure 9.

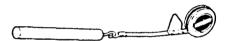


Figure 9. Modified tape.

Several measuring and marking aids were used in this study. They included a landmark transfer rod and scye marking aid, which were constructed for the purpose. The landmark transfer rod, approximately six feet high, is shown in Figure 10. It consists of a vertical rod mounted on a triangular base. The base has three casters on the bottom which permit the device to be easily rolled around the subject. A slide that can be moved up and down is mounted on the vertical rod. A dowel is mounted at right angles to the slide and rod; a thin horizontal plate is affixed to the end of the dowel. The device is used to transfer landmarks from one side of the body to the same level on another side.



Figure 10. Landmark transfer rod.

The scye marking aid is a rigid Plexiglas straightedge with a line level epoxied to the lower left margin of the straightedge. This device, illustrated in Figure 11, was used to establish the anterior and posterior scye marks.



Figure 11. Scye marking aid.

Automated Headboard Device

The automated headboard device (AHD) was specifically designed and constructed for the measurement of three-dimensional (3-D) coordinates of the head and face. The coordinates are defined in terms of three mutually perpendicular axes (X,Y, and Z) referenced to the intersection of two plane surfaces (headboards) against which a subject's head is positioned for measurement, as shown in Figure 12.

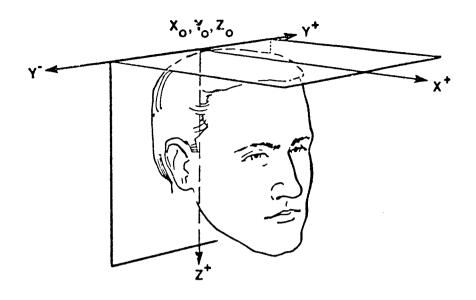


Figure 12. Axis system for headboard measurements.

The AHD is pictured in Figure 13; its basic elements are shown and labeled in Figure 14. The subject positioning system permits the seat to be raised or lowered to bring the subject's head into firm contact with the rear and top headboards (see Figure 15). A head clamp is incorporated to minimize head movement during the measuring process. A coordinate measuring system constitutes the measuring elements (see Figure 16). It consists of a movable arm which can be rotated through approximately 200 degrees (rotary bearing), moved in and out 200 mm (horizontal slide), and moved up and down 300 mm (vertical slide). In operation, the objective is to bring a small ruby bead (2-mm diameter) located on a probe on the horizontal slide into light contact with a landmark drawn on the face. The coordinate measuring system is calibrated so that the location of the center of the bead relative to the horizontal and vertical headboard surfaces is known to the nearest 0.1 mm. As the probe is moved around the face from landmark to landmark, their coordinates are entered automatically when the recorder hits a button upon word from the operator that the bead is on the landmark. Encoders attached to each of the movable slides act to convert the movements into electrical pulses that are equivalent to distance. To convert these analog signals into digital coordinate values for three axes, the system is designed to operate with a personal computer programmed to perform the analog-to-digital conversions, total the pulse counts, and perform the necessary trigonometric calculations. A full description of the development, validation, and operation of the AHD may be found in Annis and Gordon, 1988.

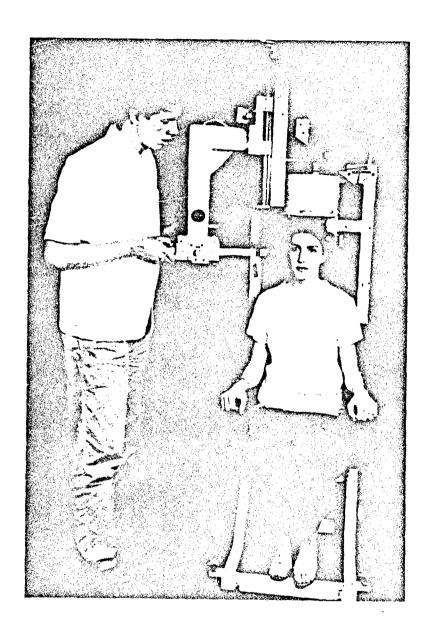


Figure 13. The Automated Headboard Device (AHD).

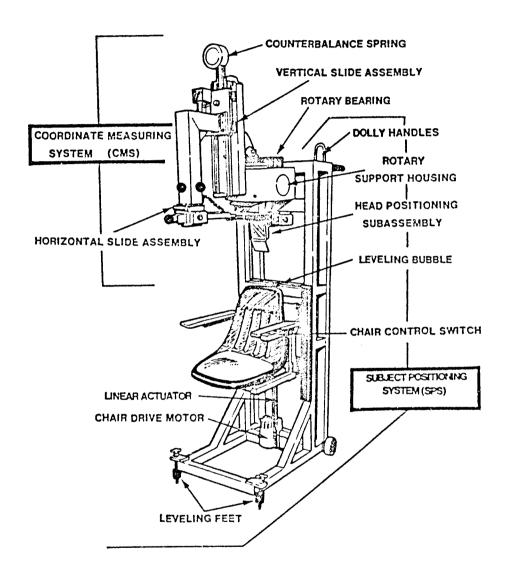


Figure 14. Principal components of the Automated Headboard Device.

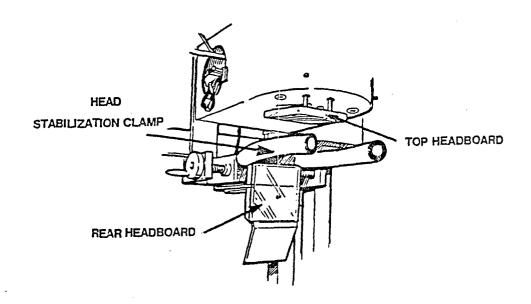


Figure 15. The reference planes (headboards) and head stabilization clamp.

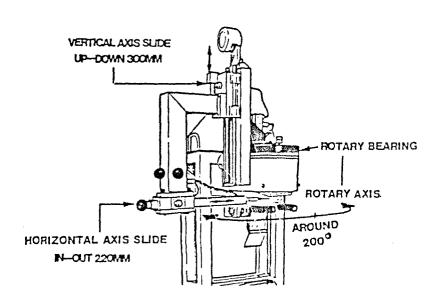


Figure 16. The axis assemblies of the coordinate measuring system and their range of movement.

Hand Photo Box

Numerous dimensions of the hand and fingers are required for the sizing and design of gloves. Because it was deemed too time-consuming to measure all these variables, a hand photometric system was designed to quickly and accurately capture hand images from which extensive data could be collected at a later time. The device is illustrated in Figure 17.

The system takes two sequential photographs: the first is a photo of the palm, using black-and-white film and flash photography; the second is a silhouette of the hand using a low-wattage bulb for back lighting and a series of lenses which cause the silhouette to be only minimally distorted. It is from the low-distortion silhouette that the measurements are made. The complete system and the optical principles on which it is based are described by Zehner and coworkers.

To collect data from the pairs of photographs, a hand shadowgram data reduction device was developed. This device, specifically designed to accept the photographs from the hand photometric system, superimposes the two images on each other. In this way, the dimensions can be taken from the silhouette image, while using the ordinary palm-and-fingers photograph to identify soft-tissue landmarks. A personal computer and custom-designed software are integral components of the data reduction

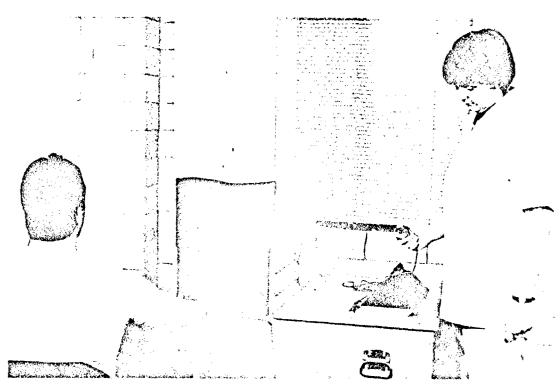


Figure 17. Subject seated at photobox.

device, so the operator can examine the superimposed photographs on the video screen and mark a number of landmarks on the hand using the computer's mouse. The coordinates of the points so identified are automatically read into the computer, which then computes the linear dimensions of the hand from the silhouette image.

Additional derived dimensional data on the hand will be available through regression equations. During the course of data collection, finger circumference data were directly measured on 1,190 subjects (620 males and 570 females) for whom hand photographs were also taken. The finger widths and corresponding finger circumferences from those individuals were used to calculate regression equations in which circumference is predicted by finger width. Using those regression equations, finger circumferences can be derived for the remainder of the subjects. Data collection using the hand shadowgram data reduction device is underway as of this writing.

THE LANDMARKS

Dimensions are measured from one point on the body (or a fixed surface such as the floor) to another or, in the case of circumferences, around a part of the body at a specified level. To ensure that each dimension is measured accurately and consistently from subject to subject, dimensions are defined in terms of body landmarks, which serve as the origin, termination, or level of measurement of a dimension.

Two men and two women were trained in locating many of these points by palpation or by sight, and placing actual drawn marks on the bodies of all subjects in this survey. Measurers were also trained to recognize other easily located landmarks, such as Dactylion II, the tip of the index finger, for which marking was not necessary.

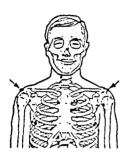
The landmarks used to define the measurements in the survey are listed and briefly described on the following pages. Detailed illustrated instructions for locating these landmarks can be found in the Measurer's Handbook. This chapter was taken from the 1938 Anthropometric Survey of U.S. Army Personnel: Methods and Summary Statistics 11

LANDMARKS

Abdominal point, anterior: The most protruding point of the relaxed abdomen of a seated subject.



Acromion, right and left: The point of intersection of the lateral border of the acromial process and a line running down the middle of the shoulder from the neck to the tip of the shoulder.



Acropodion: The tip of the first or second toe of the right foot, whichever is longer.



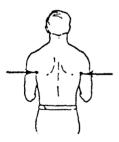
Alare, right and left: The lateral point on the flare or wing of the nose.



Anterior superior iliac spine, right and left: The anterior points of the right and left iliac crests.



Axillary fold, posterior: right and left: The highest points of the right and left axillary folds on the back.



Biceps point: The highest point of the right flexed biceps as viewed from the subject's right side.

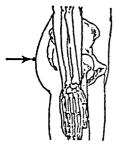


Bustpoint, right and left: The anterior points of the bra cups.



LANDMARKS (cont'd)

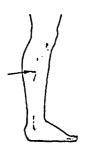
Buttock point, posterior: Point of maximum protrusion of the right buttock of a standing subject.



Buttock point, right lateral and left lateral: Points on the thigh or hip at the level of the maximum protrusion of the right buttock.



Calf: A point on the side of the calf at the level of the maximum circumference of the right calf.



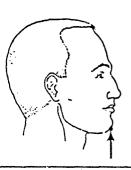
Cervicale: The superior palpable point of the spine of the seventh cervical vertebra.



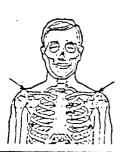
Cheilion, right and left: The lateral point of the juncture of the fleshy tissue of the lips with the facial skin at the corner of the mouth.



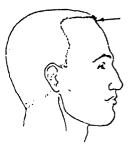
Chin: The most protruding point on the bottom edge of the chin, along the jawline.



Clavicle point, right and left: The superior point of the lateral ends of the clavicle.

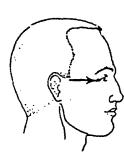


Crinion: The lowest point of the hairline on the forehead in the midsagittal plane.



LANDMARKS (cont'd)	
Dactylion II: The tip of the right index finger.	Dactylion III, right and left: The tip of the middle finger.
Deltoid point, right and left: The lateral point of the right deltoid muscle, and the margin of the left deltoid muscle at the level of the right deltoid point.	Dorsal juncture of the calf and thigh: The juncture between the right calf and thigh behind the knee of a subject sitting with the knee flexed 90 degrees.
Dorsal juncture of the foot and leg. The top of a skin crease between the right foot and the front of the ankle when the knees and ankles are flexed about 30 degrees.	Ear, bottom: The lowest point of the right ear on its long axis.
Ear point: The lateral point (farthest from the head) of the right ear.	Ear, top: The highest point of the right ear on its long axis.

Ectocanthus: The outside corner of the right eye formed by the meeting of the upper and lower eyelids.



Ectoorbitale, right and left: The posterior point on the frontal process of the zygomatic bone at the level of the outer corner of the eye.



Elbow crease: The skin crease on the inside of the right elbow joint when the elbow is flexed 90 degrees.



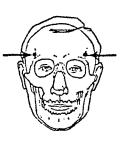
Fifth metatarsophalangeal protrusion: The lateral protrusion of the right foot in the region of the fifth metatarsophalangeal joint.



First
metatarsophalangeal
protrusion: The
medial protrusion of
the right foot in the
region of the first
metatarsophalangeal
joint.



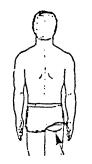
Frontotemporale, right and left: The point of deepest indentation of the temporal crest of the frontal bone above the browridges.



Glabella: The anterior point on the frontal bone midway between the bor.y browridges.



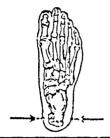
Gluteal furrow point: The lowest point of the lowest furrow or crease at the juncture of the right buttock and the thigh.



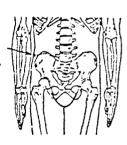
Gonion, right and left: The lateral point on the posterior angle of the mandible (jawbone).



Heel point, lateral and medial: The lateral and medial points of the right heel located at or behind the most protruding point of the lateral malleolus (outside ankle bone).



Iliocristale: The highest palpable point of the right iliac crest of the pelvis, one half the distance between the anterior superior iliac and posterior superior iliac spines.



Inferior breast point: The inferior point of the juncture of the lower of the two breasts with the torso.



Infraorbitale, right and left: The lowest point on the anterior border of the bony eye socket.



Infrathyroid: The inferior point in the midsagittal plane of the thyroid cartilage (Adam's apple).



Inner thigh: A vertical line halfway between the front and back of the right inner thigh, and extending downward from the level of the gluteal furrow.



Knee point, anterior: The most protruding point of the right kneecap of a seated subject.



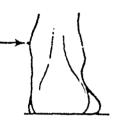
Lateral femoral epicondyle, standing and sitting: Lateral point of the right femoral epicondyle (knee pivot point).



Lateral malleolus: The lateral point of the right lateral malleolus (outside ankle bone).



Medial malleolus: The medial point of the right medial malleolus (inside ankle bone).



Menton: The inferior point of the mandible in the midsagittal plane (vottom of the chin).



Metacarpale II: The lateral point of the right metacarpophalangeal joint II (at the base of the index finger on the outer edge of the hand).



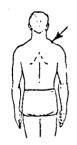
Metacarpale V: The medial point of the right metacarpophalangeal joint V (at the base of the little finger on the outer edge of the hand).

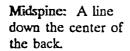


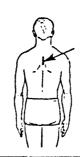
Midpatella: The anterior point halfway between the top and bottom of the right patella (the kneecap).



Midshoulder: The point on top of the right shoulder midway between the neck (right trapezius point) and the tip of the shoulder (acromion, right).







Neck: anterior, right lateral, and left lateral: Anterior and lateral points at the base of the neck.



Olecranon, bottom and rear: The lowest and rearmost points of the right elbow with the elbow flexed 90 degrees.



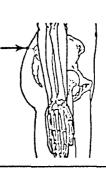
Olecranon, center: A point on the center of the curvature of the right olecranon process with the elbow flexed about 115 degrees.



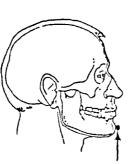
Otobasion superior: The anterior superior point of the juncture between the right ear and the head.



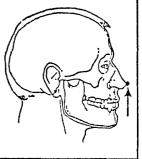
Posterior superior iliac spine: The posterior point of the crest of the right ilium. A dimple normally overlies this point.



Promenton: The anterior projection of the soft tissue of the chin.



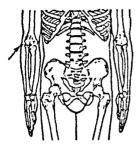
Pronasale: The point of the anterior projection of the tip of the nose.



Pternion: The posterior point of the right heel.



Radiale: The highest point on the outside edge of the right radius.



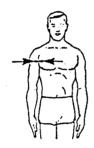
Scye: Points on the upper arm and torso associated with the armhole of a garment.

Anterior scye on the torso: A short horizontal line on the torso originating at the apex of the right anterior axillary fold.

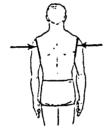
Anterior scye on the upper arm: A short horizontal line on the upper arm originating at the apex of the right anterior axillary fold.

Posterior horizontal scye, right and left: A short horizontal line on the back originating at the apex of the posterior axillary fold.

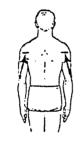
Posterior vertical scye, right and left: A short vertical line on the back originating at the apex of the posterior axillary fold.



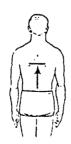
Posterior diagonal scye, right and left: A diagonal line connecting the apex of the posterior axillary fold with the acromion landmark on the tip of the shoulder.



Midscye, right and left: A short horizontal line bisecting the Posterior diagonal scye landmark.



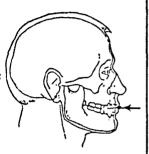
Scye level at midspine: A short horizontal line across the spine at the level of the Posterior horizontal scye landmarks.



Sellion: The point of the deepest depression of the nasal bot is at the top of the nose.



Stomion: The point of intersection of the upper and lower lip in the midsagittal plane when the mouth is closed.



Stylion: The lowest point of the bottom of the right radius.



Submandibular: The juncture, in the midsagittal plane, of the lower jaw (mandible) and the neck.



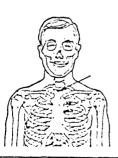
Subnasale: The point of intersection of the philtrum (groove of the upper lip) with the inferior surface of the nose, in the midsagittal plane.



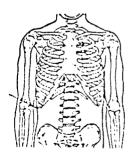
Suprapatella: The superior point of the right patella (kneecap).

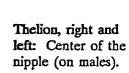


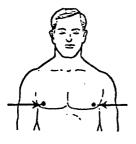
Suprasternale: The inferior point of the jugular notch of the sternum (top of the breastbone).



Tenth rib: The inferior point of the right tenth rib (bottom of the rib cage).



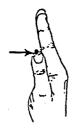




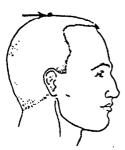
Thigh point, top: The highest point of the top of the right thigh of a seated subject.



Thumbtip: The tip of the right thumb.



Top of head: The highest point on the head when the head is in the Frankfort plane.



Tragion, right and left: The superior point on the juncture of the cartilaginous flap (tragus) of the ear with the head.



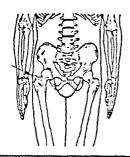
Trapezius point, right and lest: The point at which the anterior border of the trapezius muscle crosses the lateral neck landmark.



Trochanter: A point at the center of the lateral surface of the greater trochanter of the right femur of a sitting subject.



Trochanterion: The superior point of the greater trochanter of the right femur of a standing subject.



LANDMARKS (cont'd) Waist (natural indentation): right and left; anterior and posterior. Level of the greatest indentation on the right side of the torso, or half the distance between Waist (omphalion): right and left; anterior 10th rib and Iliocristale and posterior. Level of if no single indentation the center of the navel. is clear. Wrist, dorsal: A line across the back of the right wrist originating at the stylion landmark and perpendicular to Zygion, right and left: The lateral point on the long axis of the the zygomatic arch. arm. Zygofrontale, right and left: The lateral point of the frontal bone on

its zygomatic process.

CHAPTER III

THE SAMPLE

The April 1990 anthropometric qualifications which pilots must meet are: Span \geq 164 cm; Crotch Height \geq 75 cm; and Sitting Height \leq 102 cm. In addition to these general anthropometric requirements for entrance to flight school, pilots must also meet specific anthropometric requirements in order to attain flight classification for operating specific types of aircraft (i.e., rotary wing versus fixed wing). Therefore, the sampling strategy for male pilots in the survey was based on flight classification to ensure that an appropriate range of anthropometric variability was represented in the sample. In 1988, some 93% of all U.S. Army aircraft were rotary wing and approximately 7% were fixed wing aircraft. Tables 5 and 6 present a breakdown of each flight classification within the rotary wing and fixed wing aircraft types. Tables 7 and 8 show the primary and secondary flight classification distribution for the male pilots in this report.

As indicated in Table 9, the majority of male pilots (79.3%) were measured at Ft. Rucker where they were randomly selected for measurement according to flight classification. The remaining 20.7% were screened and selected for measurement at Ft. Campbell, Ft. Stewart, Ft. Ord, Ft. Lewis, and Ft. Hood. Although a total of 493 male pilots were measured, only 487 were used for computing the summary statistics presented in this report. This is because six of the male pilots could not be completely measured, and thus are not a part of the pilot working data base.

Because there are only a small number of female pilots in the U.S. Army, only nine female pilots participated in the 1988 Anthropometric Survey. Therefore, a theoretical female pilot working data base was created using the 1988 Anthropometric Survey data pool. The initial step in creating the female pilot working data base was to identify all female subjects who met the June 1989 flight school criteria. This pool of subjects was then demographically matched to the June 1989 U.S. Army female pilot population (see Table 8) using random selection. The female pilot working data base contains a total of 334 individuals who meet the current anthropometric criteria for flight school acceptance, and whose demographic characteristics match the June 1989 female pilot population.

CHARACTERISTICS OF THE WORKING DATA BASE

Tables 10 through 13 present the demographic distributions for age and race found among the June 1989 U.S. Army pilot population and the pilot working data base. The male pilot working data base has a slight excess in the 25-30 age group and among the White and Hispanic racial/ethnic groups. These slight differences are not unexpected since flight classification was used to select pilots for measurement, rather than age and race. The female pilot working data base demographically matches the actual female pilot population for all categories.

Table 14 presents the age distribution of the pilot working data base. The mean age of the female pilots (29.36 years) is three years younger than the mean age of the male pilots (32.68 years). The race distribution for both females and males is presented in Table 15. Because the female sample is only anthropometrically representative of the female pilot population, the remaining data relating to rank, ethnicity, years of service, duty location, vision, and handedness are summarized only for the male pilot working data base.

The ethnic distribution of male pilots is shown in Table 16. Over half of the male pilots view their ethnic group as American, which may be because almost all of the male pilots were born in the United States (see Table 17). Tables 18, 19, and 20 present information on Military Component, Rank, and Grade. Over 99% of the male pilots have completed more than two years of service as shown in Table 21. Vision correction, and the eye used for sighting a weapon are covered in Tables 22 and 23, respectively. Handedness, as determined by preferred hand for writing or firing a weapon, is shown in Tables 24 and 25.

TABLE 5. Distribution of U.S. Army Rotary Wing Aircraft

Rotary Wing Type	Percent
UHI	33.0
CH47	9.0
AH1.	14.0
AH64	4.0
OH58	25.0
OH60	<u>15.0</u>
Totals	100.0

TABLE 6. Distribution of U.S. Army Fixed Wing Aircraft

Fixed Wing Type	Percent
C12/U21	40.0
OV1	33.0
FW Misc.	<u>27.0</u>
Totals	100.0

TABLE 7. Primary Flight Class Distribution of 1988 Male Pilots

		C	umulative
Flight Class	Frequency	Percent	Percent
AH-1	9	1.8	1.8
AH-1GEPS	1	.2	2.1
AH-10/S	2	.4	2.5
AH-15	5	1.0	3.5
AH-64	19	3.9	7.4
	1	.2	7.6
AH1G	î	.2	7.8
C-12		.2	8.0
CH-34	1	.2	8.2
CH-47	1		8.4
CH-47ABC	1	.2	
CH-47BCD	2	.4	8.8
CH-47CD	1	.2	9.0
HUGHES30	1	.2	9.2
0-1	1	.2	9.4
O-1AEG	1	.2	9.7
OH-1DHM	1	.2	9.9
OH-1HE	1	.2	10.1
OH-13	1	.2	10.3
OH-23	5	1.0	11.3
OH-23D	2	.4	11.7
OH-5AC	ĩ	.2	11.9
OH-5AC	î	.2	12.1
	16	3.3	15.4
OH-58	3	.6	16.0
OH-58A	-	4.1	20.1
OH-58AC	20	.2	20.3
OH-58D	1		20.7
OH-58SCT	2	.4	
OH-6A	1	.2	20.9
OV-1	1	.2	21.1
01/10-1	1	.2	21.4
T-41	1	.2	21.6
T-42	1	.2	21.8
TH-11	1	.2	22.0
TH-13	2	.4	22.4
TH-13T	1	.2	22.6
TH-16	1	.2	22.8
TH-55	155	31.8	54.6
TH-55A	9	1.8	56.5
U-21	1	.2	56.7
UH-1	151	31.0	87.7
UH-1AED	1	.2	87.9
UH-1ALL	ī	.2	88.1
UH-1H	50	10.3	98.4
UH-1HV	1	.2	98.6
UH-60	5	1.0	99.6
UH-60A	2	4	100.0
UN-OUA	4		*****
TOTALS	487	100.0	100.0

TABLE 8. Secondary Flight Class Distribution of 1988 Male Pilots

None 47 9.7 9.7 AH-1 16 3.3 13.0 AH-1G 1 .2 13.1 AH-1MC 1 .2 13.3 AH-1Q/S 8 1.6 14.9 AH-1S 1 .2 15.1 AH-1S 1 .2 20.3 AH-15MC 1 .2 20.5 AH-64 7 1.4 22.0 AH-64A 1 .2 22.2 C-12 1 .2 22.4 C-45 1 .2 22.6 CH-47 7 1.4 24.0 CH-1 1 .2 24.2 CH-1H 1 .2 24.4 CH-13 8 1.6 26.1 CH-23 5 1.0 27.1 CH-55 1 .2 27.3 CH-58 58 11.3 38.6 CH-58A 15 3.1 41.7 CH-58AB 1 .2 41.9 CH-58AC 26 5.3 47.2 CH-58AC 1 .2 47.4 CH-58C 3 6 48.0 CH-58C 3 6 48.0 CH-58C 3 6 48.0 CH-58C 4 .8 49.1 CH-6 8 1.6 50.7 CV-1 1 2 2 50.9 T-41 3 6 51.5 T-42 3 6 52.2 TH-13 2 4 52.6 TH-13T 1 2 52.8 TH-13T 2 4 53.2 TH-13T 2 4 53.2 TH-13T 2 4 53.2 TH-55 21 4.3 57.5 TH-55A 3 6 58.1 U-21 5 1.0 59.1 U-21ABCH 1 .2 59.3 UH-1 90 18.5 77.8 UH-1ABCD 2 48.2	Flight Class	Frequency	<u>Percent</u>	Cumulative <u>Percent</u>
AH-1	None	47	9.7	9.7
AH-1G 1 .2 13.1 AH-1MC 1 .2 13.3 AH-1Q/S 8 1.6 14.9 AH-1S 1 .2 15.1 AH-15 25 5.1 20.3 AH-15MC 1 .2 20.5 AH-64 7 1.4 22.0 AH-64A 1 .2 22.2 C-12 1 .2 22.4 C-45 1 .2 22.6 CH-47 7 1.4 24.0 CH-1 1 .2 24.2 CH-1H 1 .2 24.4 CH-13 8 1.6 26.1 CH-23 5 1.0 27.1 CH-55 1 .2 27.3 CH-58 58 11.3 38.6 CH-58A 15 3.1 41.7 CH-58AB 1 .2 41.9 CH-58AC 26 5.3 47.2 CH-58AC 26 5.3 47.2 CH-58BD 1 .2 47.4 CH-58BD 1 .2 47.4 CH-58BC 3 .6 48.0 CH-58BC 3 .6 48.0 CH-58BC 4 .8 49.1 CH-6 8 1.6 50.7 CV-1 1 .2 50.9 T-41 3 .6 51.5 T-42 3 .6 52.2 TH-13 2 .4 52.6 TH-13ST 1 .2 52.8 TH-13T 2 .4 53.2 TH-55 21 4.3 57.5 TH-55A 3 .6 58.1 U-21 5 1.0 59.1 U-21ABCH 1 .2 59.3 UH-1ABCD 2 .4 78.2				
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CH-58 58 11.3 38.6 CH-58A 15 3.1 41.7 CH-58AB 1 .2 41.9 CH-58AC 26 5.3 47.2 CH-58ACD 1 .2 47.4 CH-58C 3 .6 48.0 CH-58D 1 .2 48.3 CH-58SCT 4 .8 49.1 CH-6 8 1.6 50.7 CV-1 1 .2 50.9 T-41 3 .6 51.5 T-42 3 .6 51.5 T-42 3 .6 52.2 TH-13 2 .4 52.6 TH-13T 2 .4 53.2 TH-55 21 4.3 57.5 TH-55A 3 .6 58.1 U-21 5 1.0 59.1 U-21ABCH 1 .2 59.3 UH-1ABCD 2 .4 78.2				
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CH-58AB 1 .2 41.9 CH-58AC 26 5.3 47.2 CH-58ACD 1 .2 47.4 CH-58C 3 .6 48.0 CH-58D 1 .2 48.3 CH-58SCT 4 .8 49.1 CH-6 8 1.6 50.7 CV-1 1 .2 50.9 T-41 3 .6 51.5 T-42 3 .6 52.2 TH-13 2 .4 52.6 TH-13ST 1 .2 52.8 TH-13T 2 .4 53.2 TH-55 21 4.3 57.5 TH-55A 3 .6 58.1 U-21 5 1.0 59.1 U-21ABCH 1 .2 59.3 UH-1 90 18.5 77.8 UH-1ABCD 2 .4 78.2				
CH-58AC 26 5.3 47.2 CH-58ACD 1 .2 47.4 CH-58C 3 .6 48.0 CH-58D 1 .2 48.3 CH-58SCT 4 .8 49.1 CH-6 8 1.6 50.7 CV-1 1 .2 50.9 T-41 3 .6 51.5 T-42 3 .6 52.2 TH-13 2 .4 52.6 TH-13ST 1 .2 52.8 TH-13T 2 .4 53.2 TH-55 21 4.3 57.5 TH-55A 3 .6 58.1 U-21 5 1.0 59.1 U-21ABCH 1 .2 59.3 UH-1 90 18.5 77.8 UH-1ABCD 2 .4 78.2				
CH-58ACD 1 .2 47.4 CH-58C 3 .6 48.0 CH-58D 1 .2 48.3 CH-58SCT 4 .8 49.1 CH-6 8 1.6 50.7 CV-1 1 .2 50.9 T-41 3 .6 51.5 T-42 3 .6 52.2 TH-13 2 .4 52.6 TH-13ST 1 .2 52.8 TH-13T 2 .4 53.2 TH-55 21 4.3 57.5 TH-55A 3 .6 58.1 U-21 5 1.0 59.1 U-21ABCH 1 .2 59.3 UH-1 90 18.5 77.8 UH-1ABCD 2 .4 78.2				
OH-58C 3 .6 48.0 OH-58D 1 .2 48.3 OH-58SCT 4 .8 49.1 OH-6 8 1.6 50.7 OV-1 1 .2 50.9 T-41 3 .6 51.5 T-42 3 .6 52.2 TH-13 2 .4 52.6 TH-13ST 1 .2 52.8 TH-13T 2 .4 53.2 TH-55 21 4.3 57.5 TH-55A 3 .6 58.1 U-21 5 1.0 59.1 U-21ABCH 1 .2 59.3 UH-1 90 18.5 77.8 UH-1ABCD 2 .4 78.2				
OH-58D 1 .2 48.3 OH-58SCT 4 .8 49.1 OH-6 8 1.6 50.7 OV-1 1 .2 50.9 T-41 3 .6 51.5 T-42 3 .6 52.2 TH-13 2 .4 52.6 TH-13ST 1 .2 52.8 TH-13T 2 .4 53.2 TH-55 21 4.3 57.5 TH-55A 3 .6 58.1 U-21 5 1.0 59.1 U-21ABCH 1 .2 59.3 UH-1 90 18.5 77.8 UH-1ABCD 2 .4 78.2				
OH-58SCT 4 .8 49.1 OH-6 8 1.6 50.7 OV-1 1 .2 50.9 T-41 3 .6 51.5 T-42 3 .6 52.2 TH-13 2 .4 52.6 TH-13ST 1 .2 52.8 TH-13T 2 .4 53.2 TH-55 21 4.3 57.5 TH-55A 3 .6 58.1 U-21 5 1.0 59.1 U-21ABCH 1 .2 59.3 UH-1 90 18.5 77.8 UH-1ABCD 2 .4 78.2				
CH-6 8 1.6 50.7 CV-1 1 .2 50.9 T-41 3 .6 51.5 T-42 3 .6 52.2 TH-13 2 .4 52.6 TH-13ST 1 .2 52.8 TH-13T 2 .4 53.2 TH-55 21 4.3 57.5 TH-55A 3 .6 58.1 U-21 5 1.0 59.1 U-21ABCH 1 .2 59.3 UH-1 90 18.5 77.8 UH-1ABCD 2 .4 78.2				
OV-1 1 .2 50.9 T-41 3 .6 51.5 T-42 3 .6 52.2 TH-13 2 .4 52.6 TH-13ST 1 .2 52.8 TH-13T 2 .4 53.2 TH-55 21 4.3 57.5 TH-55A 3 .6 58.1 U-21 5 1.0 59.1 U-21ABCH 1 .2 59.3 UH-1 90 18.5 77.8 UH-1ABCD 2 .4 78.2				
T-41 3 .6 51.5 T-42 3 .6 52.2 TH-13 2 .4 52.6 TH-13ST 1 .2 52.8 TH-13T 2 .4 53.2 TH-55 21 4.3 57.5 TH-55A 3 .6 58.1 U-21 5 1.0 59.1 U-21ABCH 1 .2 59.3 UH-1 90 18.5 77.8 UH-1ABCD 2 .4 78.2				
T-42 3 .6 52.2 TH-13 2 .4 52.6 TH-13ST 1 .2 52.8 TH-13T 2 .4 53.2 TH-55 21 4.3 57.5 TH-55A 3 .6 58.1 U-21 5 1.0 59.1 U-21ABCH 1 .2 59.3 UH-1 90 18.5 77.8 UH-1ABCD 2 .4 78.2				
TH-13 2 .4 52.6 TH-13ST 1 .2 52.8 TH-13T 2 .4 53.2 TH-55 21 4.3 57.5 TH-55A 3 .6 58.1 U-21 5 1.0 59.1 U-21ABCH 1 .2 59.3 UH-1 90 18.5 77.8 UH-1ABCD 2 .4 78.2				
TH-13ST 1 .2 52.8 TH-13T 2 .4 53.2 TH-55 21 4.3 57.5 TH-55A 3 .6 58.1 U-21 5 1.0 59.1 U-21ABCH 1 .2 59.3 UH-1 90 18.5 77.8 UH-1ABCD 2 .4 78.2				
TH-13T 2 .4 53.2 TH-55 21 4.3 57.5 TH-55A 3 .6 58.1 U-21 5 1.0 59.1 U-21ABCH 1 .2 59.3 UH-1 90 18.5 77.8 UH-1ABCD 2 .4 78.2				
TH-55 21 4.3 57.5 TH-55A 3 .6 58.1 U-21 5 1.0 59.1 U-21ABCH 1 .2 59.3 UH-1 90 18.5 77.8 UH-1ABCD 2 .4 78.2				
TH-55A 3 .6 58.1 U-21 5 1.0 59.1 U-21ABCH 1 .2 59.3 UH-1 90 18.5 77.8 UH-1ABCD 2 .4 78.2				
U-21 5 1.0 59.1 U-21ABCH 1 .2 59.3 UH-1 90 18.5 77.8 UH-1ABCD 2 .4 78.2				
U-21ABCH 1 .2 59.3 UH-1 90 18.5 77.8 UH-1ABCD 2 .4 78.2	U-21			
UH-1 90 18.5 77.8 UH-1ABCD 2 .4 78.2	U-21ABCH			
UH-1ABCD 2 .4 78.2	UH-1			
	UH-1ABCD	2		
	UH-LABOH	1		
UH-1ALL 2 .4 78.9	UH-1ALL			
UH-1BC 1 .2 79.1	UH-1BC			
UH-1BDH 1 .2 79.3	UH-1BCH			
UH-1DH 2 .4 79.7				
UH-1H 75 15.4 95.1				
UH-1HV 1 .2 95.3	UH-1HV	1		

TABLE 8. Continued

Flight Class	Frequency	<u>Percent</u>	Dercent
UH-60 UH-6CA UH-60D	1.9 3 1	3.9 .6 2	99.2 99.8 100.0
TOTAL	487	100.0	100.0

TABLE 9. Distribution by Duty Location 1988 Male Pilots

	Frequency	Percent
Fort Campbell	22	4.5
Fort Stewart	6	1.2
Fort Ord	5	1.0
Fort Lewis	. 18	3.7
Fort Hood	50	10.3
Fort Rucker	<u>386</u>	79.3
TOTALS	487	100.0

TABLE 10. Demographic Distribution of the U.S. Army Pilots, June 1989: Females

					Asian/	American Indian/		
					Pacific	Alaskan	Mixed/	Row
Age (yrs	3)	<u>White</u>	Black	<u> Pispanic</u>	Island	Native	Other	Total
≤ 20	Count	2	0	0	0	0	0	2
	*	0.7	0.0	0.0	0.0	0.0	0.0	0.7
21-24	Count	20	0	0	0	0	1	21
	*	7.4	0.0	0.0	0.0	0.0	0.4	7.7
25-30	Count	145	3	2	1	2	4	157
	*	53.3	1.1	0.7	0.4	0.7	1.5	57.7
≥ 31	Count	87	3	0	1	0	1	92
	ક્ર	32.0	1.1	0.0	0.4	0.0	0.4	33.8
TOTALS	Count	254	6	2	2	2	6	272
	*	93.4	2.2	0.7	0.7	0.7	2.2	99.9

TABLE 11. Demographic Distribution of Female Pilot Working Data Base

Age (yrs) Whit	<u>e Black</u>	Hispanic	Asian/ Pacific <u>Island</u>	Americar Indian/ Alaskan Native	Mixed/	Row <u>Total</u>
≤ 20 Count 2 % 0.6		0 0.0	0 0.0	0 0.0	0 0.0	2 0.6
		0.0			0.0	
21-24 Count 25	5 0	C	0	0	1	26
¥ 7.5	0.0	0.0	0.0	0.0	0.3	7.8
25-30 Count 178		2	1	2	6	193
% 53.3	1.2	0.6	0.3	0.6	1.8	57.8
≥ 31 Count 107	-	0	1.	0	1	113
% 32.0	1.2	0.0	0.3	0.0	0.3	33.8
TOTALS Count 312	e 8 °	2	2	2	8	334
\$ 93.4		0.6	0.6	0.6	2.4	100.0

TABLE 12. Demographic Distribution of the U.S. Army Pilots, June 1989: Males

					Asian/ Pacific	American Indian/ Alaskan	Mixed/	Row
Age (yr	<u>s)</u>	White	Black	<u> Hispanic</u>	Island	Native	Other	Total
≤ 20	Count %	27 0.2	0.0	0.0	0.0	0.0	0 0.0	27 0.2
21-24	Count %	517 4.2	10 0.1	4 0.0	2 0.0	5 0.1	3 0.0	541 4.4
25-30	Count %	3420 27. 9	130 1.1	22 0.2	11 0.1	0.0	51 0.4	3636 29.7
≥ 31	Count %	7479 61 .1	315 2.6	107 0.9	29 0.2	18 0.1	94 0.8	8042 65.7
TOTALS	Count %	11443 93.4	455 3.7	133 1.1	42 0.3	25 0.2	148 1.2	12246 100.0

TABLE 13. Demographic Distribution of Male Pilot Working Data Base

Age (yrs	<u>5)</u>	<u>White</u>	<u>Black</u>	<u> Hispanic</u>	Asian/ Pacific <u>Island</u>	American Indian/ Alaskan Native	Mixed/ Other	Row <u>Total</u>
≤ 20	Count %	2 0.4	0.0	0.0	0.0	0.0	0.0	2 0.4
21-24	Count %	26 5.3	0.2	0.0	0.0	0.0	2 0.4	29 6.0
25-30	Count %	142 29.2	7 1.4	9 1.9	2 0.4	0.0	6 1.2	166 34.1
≥ 31	Count %	251 51.5	7 1.4	17 3.5	3 0.6	2 0.4	10 2.1	290 59.5
TOTALS	Count %	421 86.4	15 3.1	26 5.4	5 1.0	2 0.4	18 3.7	487 100.0

TABLE 14. Age Distribution of 1988 Pilots

Females (Mean Age - 29.36) Males (Mean Age - 32.68)

		c	umulativ	e			umulative
<u>Age</u>	Frequency	Percent	Percent	<u>Age</u>	Frequency	Percent	<u>Percent</u>
20	2	.6	.6	20	2	.4	.4
21	8	2.4	3.0	21	3	.6	1.0
22	5	1.5	4.5	22	2	.4	1.4
23	7	2.1	6.6	23	3	.6	2.1
24	6	1.8	8.4	24	21	4.3	6.4
25	48	14.4	22.8	25	16	3.3	9.7
26	35	10.5	33.2	26	13	2.7	12.3
27	36	10.3	44.0	27	27	5.5	17.9
28	29	8.7	52.7	28	39	8.0	25.9
29	23	6.9	59.6	29	32	6.6	32.4
30	22	6.6	66.2	30	39	8.0	40.5
31	16	4.8	71.0	31	38	7.8	48.3
32	. 9	2.7	73.7	32	26	5.3	53.6
33	20	6.0	79.6	33	27	5.5	59.1
34	14	4.2	83.8	34	25	5.1	64.3
35	11	3.3	87.1	35	19	3.9	68.2
36	10	3.0	90.1	36	21	4.3	72.5
37	11	3.3	93.4	37	20	4.1	76.6
38	4	1.2	94.6	38	15	3.1	79.7
39	4	1.2	95.8	39	32	6.6	86.2
40	5	1.5	97.3	40	23	4.7	91.0
41	4	1.2	98.5	41	13	2.7	93.6
42	2	.6	99.1	42	12	2.5	96.1
43	0	.0	99.1	43	8	1.6	97.7
44	2	.6	99.7	44	5	1.0	98.8
45	1	3	100.C	45	1	.2	99.0
	-			46	1	.2	99.2
TOTALS	334	100.0	100.0	47	1	.2	99.4
				48	1	.2	99.6
				50	1	.2	99.8
				51	1	2	100.0
				TOTALS	487	100.0	100.0

TABLE 15. Distribution by Race of 1988 Pilots

1	Females			Males	
Race	Frequency	Percent	<u>Race</u>	Frequency	Percent
White Black Hispanic Asian/Pacific American Indian Mixed/Other	312 8 2 2 2 1 2 8	93.4 2.4 0.6 0.6 0.6 2.4	White Black Hispanic Asian/Pacific American India Mixed/Other	421 15 26 5 n 2 _18	86.4 3.1 5.3 1.0 .4 3.7
TOTALS	334	100.0		487	100.0

TABLE 16. Distribution by Ethnicity 1988 Male Pilots

		Frequency	<u>Percent</u>
ASIAN			
	Asian American Filipino	1 2	.2 .4
CARIBBEAN ISLANDER	<u>s</u>		
	Cuban Puerto Rican	1 12	.2 2.5
CENTRAL AND SOUTH	AMERICAN		
	Colombian Hispanic American Latin American Mexican Mexican American	1 1 4 3	.2 .2 .2 .8
EUROPEAN			
	Anglo-Saxon British Czech Danish Dutch English European French German Greek Hungarian Irish Italian Iuxembourgian Norwegian Polish Scandinavian Scots Scots-Irish Slovak Swedish Welsh	1 1 1 25 3 3 41 1 2 21 7 1 3 4 2 3 5 1 2 2	.2 .2 .2 .2 5.1 .6 .6 8.4 .2 .4 .4 .3 1.4 .2 .6 .8 .4 .4 .4 .4 .4 .4 .4 .4 .4 .4 .4 .4 .4

TABLE 16. Continued

MIXED/OTHER			
	Irish Apache	1	.2
NATIVE AMERICAN			
	American Indian Cherokee Hawaiian Lumbee Sioux	1 2 1 1	.2 .4 .2 .2
NORTH AMERICAN, NO	OT NATIVE AMERICAN		
	American Afro-American Black American Canadian French Canadian	312 1 7 1	64.1 .2 1.4 .2 .2
PACIFIC ISLANDERS			
	Guamanian	_1	2
	TOTALS	487	100.0

TABLE 17. Distribution by Birthplace 1988 Male Pilots

	Frequency	Percent
Alabama	14	2.9
Alaska	3	.6
Arizona	3	.6
Arkansas	3	.6
California	32	6.6
Colorado	4	.8
Connecticut	7	1.4
Delaware	2	.4
Florida	25	5.1
Georgia	17	3.5
Hawaii	1	.2
Idaho	3	.6
Illinois	16	3.3
Indiana	7	1.4
Iowa	5	1.0
Kansas	7	1.4
Kentucky	8	1.6
Louisiana	7	1.4
Maine	4	.8
Maryland	9 11	1.8 2.3
Massachusetts	16	3.3
Michigan	13	2.7
Minnesota Mississippi	6	1.2
Mississippi Missouri	16	3.3
Montana	4	.8
Nebraska	6	1.2
Nevada	2	.4
New Jersey	10	2.1
New Mexico	4	.8
New York	23	4.7
North Carolina	15	3.1
North Dakota	2	.4
Ohio	14	2.9
Oklahoma	7	1.4
Oregon	5	1.0
Pennsylvania	31	6.4
Rhode Island	1	.2
South Carolina	9	1.8
South Dakota	2	.4
Tennessee	10	2.1
Texas	28	5.7
Utah	1	.2

TABLE 17. Continued

Virginia Washington West Virginia Wisconsin Wyoming Washington, DC	12 6 3 8 1 4	2.5 1.2 .6 1.6 .2
Asia Canada Iatin America Europe Pacific Islands West Indies	3 1 6 17 3 10	.6 .2 1.2 3.5 .6 <u>2.1</u>
TOTALS	487	100.0

TABLE 18. Distribution by Military Component 1988 Male Pilots

	Frequency	Percent
Regular Army Army Reserve Missing Data	440 45 2	90.3 9.2 <u>.4</u>
TOTALS	487	100.0

TABLE 19. Distribution by Rank 1988 Male Pilots

	Frequency	Percent
Warrant Officer 1 Warrant Officer 2	15 140	3.1 28.7
Warrant Officer 3	78	16.0
Warrant Officer 4 First Lieutenant	60 29	12.3 6.0
Captain Major	133 23	27.3 4.7
Lieutenant Colonel	9	1.8
TOTALS	487	100.0

TABLE 20. Distribution by Grade 1988 Male Pilots

		Frequency	<u>Percent</u>
WO1 .		15	3.1
WO2		140	28.7
MO3		78	15.0
WO4		60	12.3
02		29	6.0
03		133	27.3
04		23	4.7
05		9	1.8
r	TOTAL	487	100.0

TABLE 21. Distribution by Years of Service 1988 Male Pilots

Years Completed	Frequency	Percent
0	1	.2
1	2	.4
2	14	2.9
3	26	5.3
4	14	2.9
5	22	4.5
6	48	9.9
7	40	8.2
8	34	7.0
9	24	4.9
10	23	4.7
11	29	6.0
12	28	5.7
13	23	4.7
. 14	19	3.9
15	17	3.5
16	24	4.9
17	23	4.7
18	15	3.1
19	29	6.0
20	13	2.7
21	10	2.1
22	4	.8
24	1	.2
25	1	.2
26	1	.2
27	1	.2
32	_1	2
TOTALS	487	100.0

TABLE 22. Distribution by Vision Correction 1988 Male Pilots

1	Frequency	Percent
Neither Glasses nor Contacts Prescription Glasses Prescription Contacts Both	401 82 0 4	82.3 16.8 0.0 8
TOTALS	487	100.0

TABLE 23. Distribution by Sighting - Weapon 1988 Male Pilots

	Frequency	<u>Percent</u>
Right	413	84.8
Left	48	9.9
Either	_26	<u>5.3</u>
TOTALS	487	100.0

TABLE 24. Distribution by Handedness - Writing 1988 Male Pilots

	Frequency	Percent
Right	432	88.7
Left	<u>55</u>	<u>11.3</u>
TOTALS	487	100.0

TABLE 25. Distribution by Handedness - Weapon 1988 Male Pilots

	Frequency	Percent
Right	436	89.5
Left	38	7.8
Either	_13	2.7
TOTALS	487	100.0

CHAPTER IV

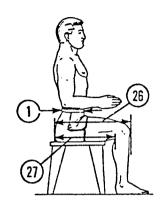
THE STANDARD MEASUREMENTS

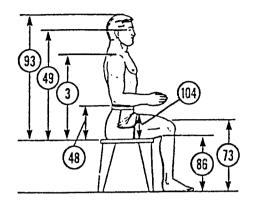
One hundred thirty-two directly measured dimensions were obtained in this survey using traditional measuring instruments and methods. Where there was a choice of right or left, all measurements were taken on the right side unless otherwise specified or in the rare cases where an injury or anatomical abnormality made it necessary to measure on the left side. All measurements were made to the nearest millimeter. Weight was taken to the nearest 0.1 kilogram. Detailed illustrated instructions for making these measurements can be found in the Measurer's Handbook 13.

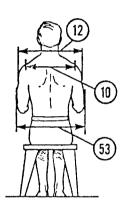
Summary statistics, including means, standard deviations, and percentile values for male and female subjects, are tabulated on the ensuing pages. Users of these data will note .00 standard error (SE) values for some means and standard deviations. This SE occurs because values in these tables are not listed beyond two decimal places. It will also be noted that for crinion measurements the number of male pilots are slightly below 487. Crinion (the widow's peak) cannot be located on bald subjects or those with receding hairlines; thus measurements involving this landmark were not taken on some subjects.

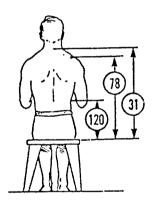
A visual index, designed to assist the reader in locating particular dimensions whose names may be unfamiliar, appears on the following pages. Completing this section are the data pages, which include brief measurement descriptions, percentile tables, summary statistics, and frequency tables.

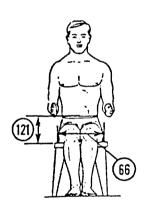
VISUAL INDEX - THE STANDARD MEASUREMENTS





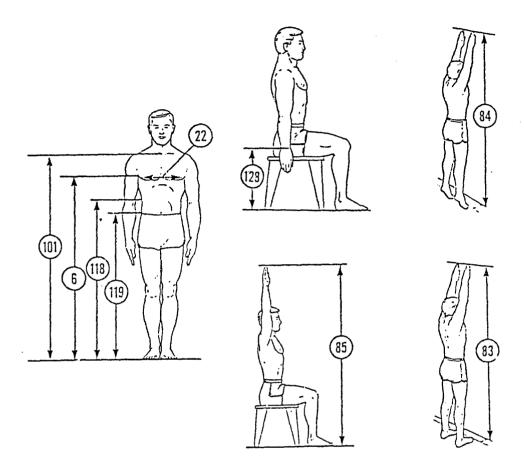




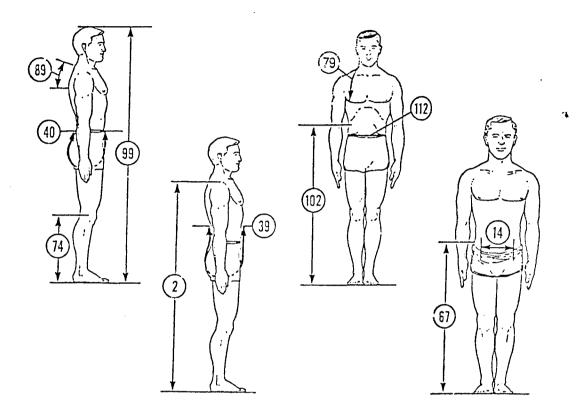


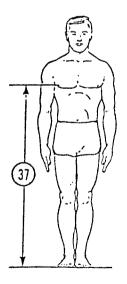
- (1) ABDOMINAL EXTENSION DEPTH, SITTING
- (3) ACROMIAL HEIGHT, SITTING
- (10) BIACROMIAL BREADTH
- (12) BIDELTOID BREADTH
- (26) BUTTOCK-KNEE LENGTH
- (27) BUTTOCK-POPLITEAL LENGTH
- (31) CERVICALE HEIGHT, SITTING
- (48) ELBOW REST HEIGHT
- (49) EYE HEIGHT, SITTING
- (53) FOREARM-FOREARM BREADTH

- (66) HIP BREADTH, SITTING
- (73) KNEE HEIGHT, SITTING
- (78) MIDSHOULDER HEIGHT, SITTING
- (86) POPLITEAL HEIGHT
- (93) SITTING HEIGHT
- (104) THIGH CLEARANCE
- (120) WAIST HEIGHT, SITTING (NATURAL INDENTATION)
- (121) WAIST HEIGHT, SITTING (OMPHALION)



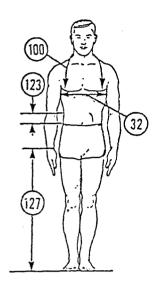
- (6) AXILLA HEIGHT
- (22) BUSTPOINT/THELION-BUSTPOINT/THELION BREADTH
- (83) OVERHEAD FINGERTIP REACH
- (84) OVERHEAD FINGERTIP REACH, EXTENDED
- (85) OVERHEAD FINGERTIP REACH, SITTING
- (101) SUPRASTERNALE HEIGHT
- (118) WAIST HEIGHT (NATURAL INDENTATION)
- (119) WAIST HEIGHT (OMPHALION)
- (128) WRIST HEIGHT, SITTING

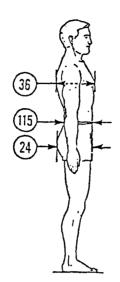


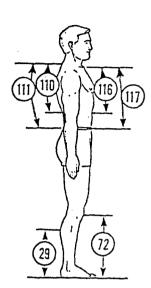


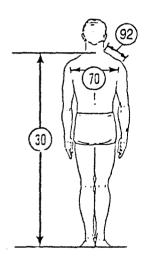
- (2) ACROMIAL HEIGHT
- (14) BISPINOUS BREADTH
- (37) CHEST HEIGHT
- (39) CROTCH LENGTH (NATURAL INDENTATION)
- (40) CROTCH LENGTH (OMPHALION)
- (67) ILIOCRISTALE HEIGHT
- (74) LATERAL FEMORAL EPICONDYLE HEIGHT
- (79) NECK-BUSTPOINT/THELION LENGTH
- (89) SCYE DEPTH
- (99) STATURE
- (102) TENTH RIB HEIGHT

(112) WAIST BREADTH



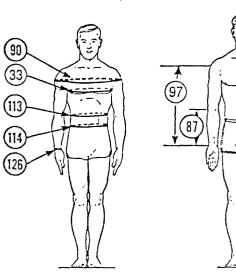


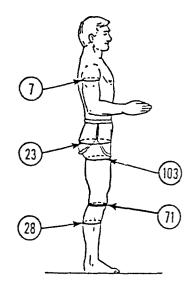


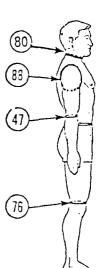


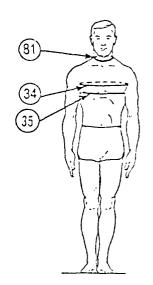
- (24) BUTTOCK DEPTH
- (29) CALF HEIGHT
- (30) CERVICALE HEIGHT
- (32) CHEST BREADTH

- (36) CHEST DEPTH
- (70) INTERSCYE II
- (72) KNEE HEIGHT, MIDPATELLA
- (92) SHOULDER LENGTH
- (100) STRAP LENGTH
- (110) WAIST BACK LENGTH (NATURAL INDENTATION)
- (111) WAIST BACK LENGTH (OMPHALION)
- (115) WAIST DEPTH
- (116) WAIST FRONT LENGTH (NATURAL INDENTATION)
- (117) WAIST FRONT LENGTH (OMPHALION)
- (123) WAIST (NATURAL INDENTATION) TO WAIST (OMPHALION) LENGTH
- (127) WRIST HEIGHT



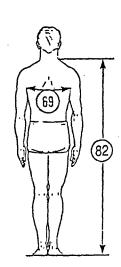


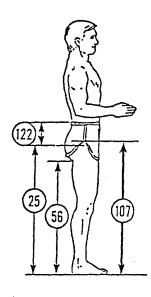


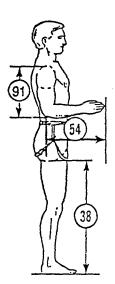


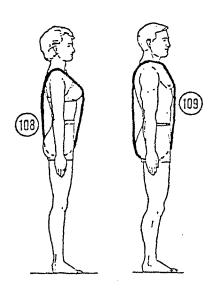
- (7) AXILLARY ARM CIRCUMFERENCE
- (23) BUTTOCK CIRCUMFERENCE
- (28) CALF CIRCUMFERENCE
- (33) CHEST CIRCUMFERENCE
- (34) CHEST CIRCUMFERENCE AT SCYE
- (35) CHEST CIRCUMFERENCE BELOW BREAST
- (47) ELBOW CIRCUMFERENCE

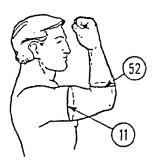
- (71) KNEE CIRCUMFERENCE
- (76) LOWER THIGH CIRCUMFERENCE
- (80) NECK CIRCUMFERENCE
- (81) NECK CIRCUMFERENCE, BASE
- (87) RADIALE-STYLION LENGTH
- (83) SCYE CIRCUMFERENCE
- (90) SHOULDER CIRCUMFERENCE
- (97) SLEEVE OUTSEAM
- (103) THIGH CIRCUMFERENCE
- (113) WAIST CIRCUMFERENCE (NATURAL INDENTATION)
- (114) WAIST CIRCUMFERENCE (OMPHALION)
- (126) WRIST CIRCUMFERENCE



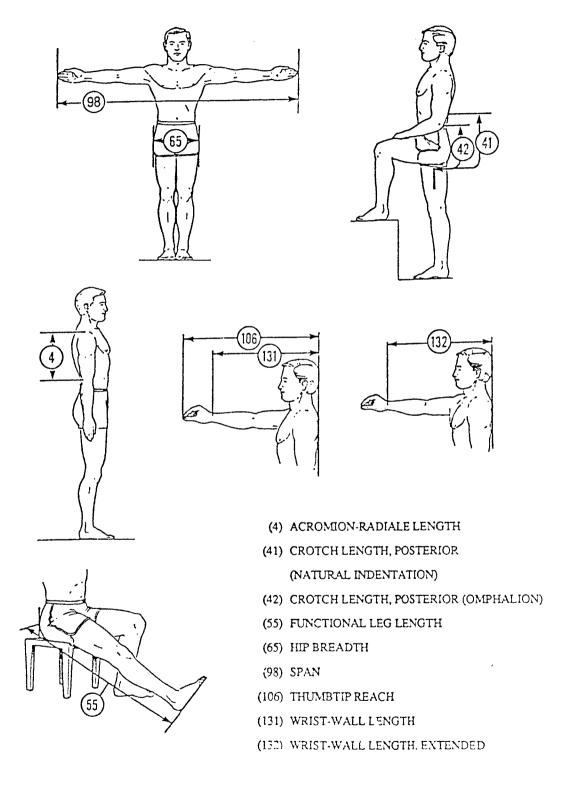




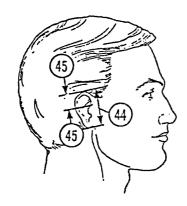


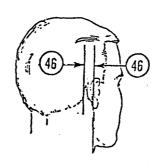


- (11) BICEPS CIRCUMFERENCE, FLEXED
- (25) BUTTOCK HEIGHT
- (38) CROTCH HEIGHT
- (52) FOREARM CIRCUMFERENCE, FLEXED
- (54) FOREARM-HAND LENGTH
- (56) GLUTEAL FURROW HEIGHT
- (69) INTERSCYE I
- (82) NECK HEIGHT, LATERAL
- (91) SHOULDER-ELBOW LENGTH
- (107) TROCHANTERION HEIGHT
- (108) VERTICAL TRUNK CIRCUMFERENCE (ASCC)
- (109) VERTICAL TRUNK CIRCUMFERENCE (USA)
- (122) WAIST-HIP LENGTH



VISUAL INDEX - THE STANDARD MEASUREMENTS (Continued)





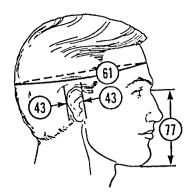


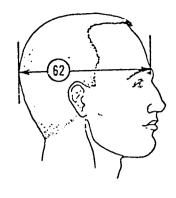


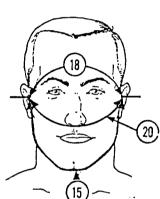


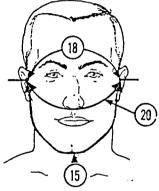
- (44) EAR LENGTH
- (45) EAR LENGTH ABOVE TRAGION
- (46) EAR PROTRUSION
- (94) SLEEVE LENGTH: SPINE-ELBOW
- (95) SLEEVE LENGTH: SPINE-SCYE
- (96) SLEEVE LENGTH: SPINE-WRIST

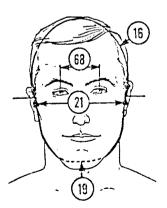
VISUAL INDEX - THE STANDARD MEASUREMENTS (Continued)





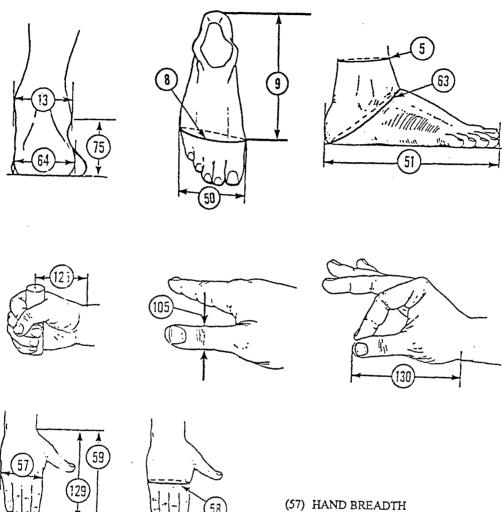






- (15) BITRAGION CHIN ARC
- (16) BITRAGION CORONAL ARC
- (17) BITRAGION CRINION ARC
- (18) BITRAGION FRONTAL ARC
- (19) BITRAGION SUBMANDIBULAR ARC
- (20) BITRAGION SUBNASALE ARC
- (21) BIZYGOMATIC BREADTH
- (43) EAR BREADTH
- (60) HEAD BREADTH
- (61) HEAD CIRCUMFERENCE
- (62) HEAD LENGTH
- (68) INTERPUPILLARY BREADTH
- (77) MENTON-SELLION LENGTH

VISUAL INDEX - THE STANDARD MEASUREMENTS (Continued)



- (5) ANKLE CIRCUMFERENCE
- (8) BALL OF FOOT CIRCUMFERENCE
- (9) BALL OF FOOT LENGTH
- (13) BIMALLEOLAR BREADTH
- (50) FOOT BREADTH, HORIZONTAL
- (51) FOOT LENGTH

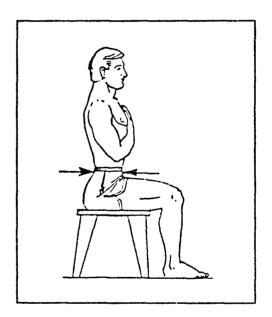
- (58) HAND CIRCUMFERENCE
- (59) HAND LENGTH
- (63) HEEL ANKLE CIRCUMFERENCE
- (64) HEEL BREADTH
- (75) LATERAL MALLEOLUS HEIGHT
- (105) THUMB BREADTH
- (125) WRIST-CENTER OF GRIP LENGTH
- (129) WRIST-INDEX FINGER LENGTH
- (130) WRIST-THUMBTIP LENGTH

STANDARD MEASUREMENT DESCRIPTIONS AND PILOT SUMMARY STATISTICS

(1) ABDOMINAL EXTENSION DEPTH, SITTING

The horizontal distance between the anterior point of the abdomen and the back at the same level is measured with a beam caliper. The subject sits erect looking straight ahead. The measurement is made at the maximum point of quiet respiration.





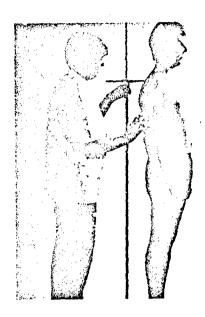
VARIABLE NO. 1-APDOMINAL EXTENSION DEPTH, SITTING

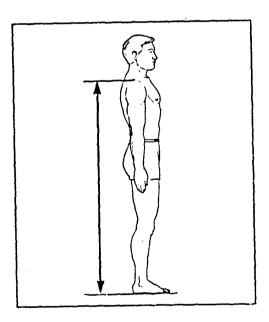
FEMALES

	Mary Stat.	ISTICS	THE SU	MMARY STATISTICS	
CENTIMETE	RS	INCHES	CENTIMET	ers inches	
22.79			24.31	MEAN 9.57	
0.16	SE (MEAN)	0.06		SE(MEAN) 0.05	
2.86	ST DEV	1.13	2.58		
0.11	SE(SD)	0.04	0.08		
	, ,			(55)	
16.10	MUNIMUM	6.34	17,50	MINIMUM 6.89	
31.60	MAXIMUM	12.44	34.10		
		,	337.20		
COEFF. OF	VARIATION	12.6%	COEFF. OF	VARIATION 10.6%	
SYMMETRY	VETA I	0.51	SYMMETRY-		
KURTOSIS	VETA II	3.08			
				, az 2,55	
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS 487	
				PORTETO 401	
					•
	ERCENTILES	3	·	PERCENTILES	
CENTIMETE	RS	INCHES	CENTIMET	ers inches	
17.64		6.94	18.95	1ST 7.46	
17.94	2ND	7.06	19.49	2ND 7.67	
18.18	3RD	7.16	19.83	3RD 7.81	
18.58	5TH	7.31	20.31	5TH 8.00	
19.29	10TH	7.60	21.07		
19.84	15TH	7.81	21.61		
20.30	20TH	7.99	22.06		
20.72	25TH	8.16	22.46		
21.11	30TH	8.31	22.82	30TH 8.99	
21.48	35TH	8.46	23.17		
21.84	40TH	8.60		33111 3.12	
22.19	45TH	8.74	23.51	40TH 9.26	
22.55	50TH	8.88	23.84	45TH 9.39	
22.91	55TH		24.17	50TH 9.52	
23.29		9.02	24.52	55TH 9.65	
	60TH	9.17	24.86	60TH 9.79	
23.69	65TH	9.33	25.23	65TH 9.93	
24.11	70TH	9.49	25.62	70TH 10.09	
24.59	75TH	9.68	26.05	75TH 10.26	
25.13	80TH	9.89	26.53	80TH 10.44	
25.78	85TH	10.15	27.09	85TH 10.66	
26.63	90TH	10.48	27.79	90TH 10.94	
27.98	95TH	11.02	28.80	95TH 11.34	
28.92	97TH	11.38	29.43	97TH 11.59	
29.64	98TH	11.67	29.87	98TH 11.76	
30.86	99TH	12.15	30.50	99TH 12.01	
			50150		

(2) ACROMIAL HEIGHT

The vertical distance between a standing surface and the acromion landmark on the tip of the right shoulder is measured with an anthropometer. The subject stands erect looking straight ahead. The heels are together with the weight distributed equally on both feet. The shoulders and upper extremities are relaxed. The measurement is made at the maximum point of quiet respiration.





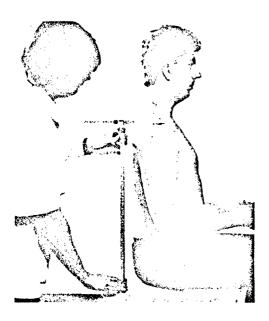
VARIABLE NO. 2-ACROMIAL HEIGHT

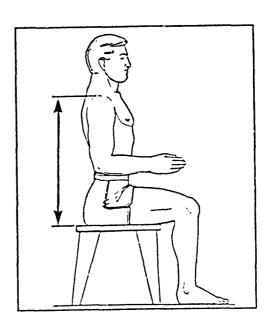
FEMALES

THE SUN	imary <i>s</i> tati Irs	ISTICS INCHES	THE SUM CENTIMETE	Mary Stati RS	STICS INCHES
0.22	MEAN SE (MEAN) ST DEV SE (SD)	0.09	0.27	MFAN SE (MEAN) ST DEV SE (SD)	0.11
	MINIMUM MAXIMUM			MINIMUM MAXIMUM	
SYMMETRY KURTOSIS	VARIATIONVETA IVETA II SUBJECTS	0.44 3.92	COEFF. OF SYMMETRY— KURTOSIS— NUMBER OF	VETA I	0.01 2.86
I CENTIMETE	PERCENTILES ERS	INCHES	P CENTIMETE	ERCENTILES RS	INCHES
129.06 129.98 130.57 131.38 132.65 133.54 134.26 134.89 135.46 136.00 136.52 137.02 137.53 138.05 138.57 139.13 139.71 140.35 141.08 141.92 143.00	2ND 3RD 5TH 10TH 15TH 20TH 25TH 30TH 35TH 40TH 45TH 50TH 55TH 60TH 70TH 75TH 80TH	51.17 51.40 51.72 52.23 52.57 52.86 53.11 53.33 53.54 53.75 53.95 54.15	133.42 134.48 135.87 137.95 139.35 140.45 141.41 142.28 143.09 143.86 144.62 145.37 146.13 146.90 147.71 148.56 149.48 150.52 151.71	3RD 5TH 10TH 15TH 20TH 25TH 30TH 35TH 40TH 45TH 55TH 60TH 65TH 70TH 80TH 85TH	52.53 52.94 53.49 54.31 54.86 55.30 55.67 56.02 56.33 56.64 57.23 57.53 57.84 58.15 58.49 58.85 59.26 59.73
144.60 145.63 146.38 147.54	97TH 98TH	56.93 57.34 57.63 58.09	155.32 156.61 157.51 158.77	97TH 98TH	61.66 62.01

(3) ACROMIAL HEIGHT, SITTING

The vertical distance between a sitting surface and the acromion landmark on the tip of the right shoulder is measured with an anthropometer. The subject sits erect looking straight ahead. The shoulders and upper arms are relaxed and the forearms and hands are extended forward horizontally with the palms facing each other. The measurement is made at the maximum point of quiet respiration.





VARIABLE NO. 3—ACROMIAL HEIGHT, SITTING

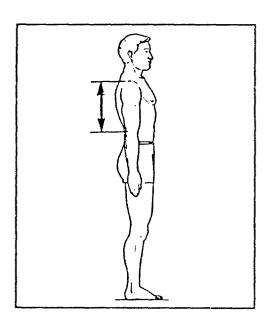
FEMALES

THE SUMM CENTIMETER		ISTICS INCHES	THE SUMM CENTIMETER	ARY STATISTICS INCHES
57.8 5	MEAN	22.77	61.20	MEAN 24.09
	SE (MEAN)			SE (MEAN) 0.05
2.39	ST DEV	0.94	2.82	ST DEV 1.11
0.09	SE(SD)	0.04	0.09	
				(,
50.90	MUMINIM	20.04	52.30 M	IINIMUM 20.59
66.40 1	MUMIXAN	26.14	69.60 N	AXIMUM 27.40
COEFF. OF VA	NTOT NITTON	A 10.		
SYMMETRY——	ACTATION	0.02		RIATION 4.6%
KURIOSIS	-AETA T	0.02	SYMMETRY	
NUKIUSIS	-VEIA II	3.19	KURIOSIS	-VETA II 3.14
NUMBER OF SU	JBJECTS	334	NUMBER OF SU	JBJECTS 487
			-	
PEI	CENTILES	5	DET	CENTILES
CENTIMETERS	3	INCHES	CENTIMETERS	
				namo
51.94	1ST		54.00	1ST 21.26
52.83		20.80	54.98	1ST 21.26 2ND 21.65
53.34	3RD	21.00 21.25	55.59	3RD 21.89
53.97	5TH	21.25	56.40	5TH 22.20
54.87	10TH	21.60	57.59	10TH 22.67
55.44	15TH	21.83	58.36	
55.88	20TH	22.00	58.95	15TH 22.98 20TH 23.21
56.26	25TH	22.15	59.44	25TH 23.40
56.60	30TH	22.28	59.87	30TH 23.57
56.92	35TH	22.41	60.26	35TH 23.73
57.22	40TH	22.53	60.63	
57.52	45TH	22.64	60.97	40TH 23.87 45TH 24.00
57.81	50TH	22.76	61.31	50TH 24.14
58.11	55TH	22.88	61.64	55TH 24.27
58.42	60TH	23.00	61.98	60TH 24.40
58.74	65TH	23.13	62.32	65TH 24.54
59.08	70TH	23.26	62.68	70TH 24.68
59.45	75TH	23.41	63.06	75TH 24.83
59.87		23.57	63.50	701H 24.83
60.35	85TH	23.76	64.00	80TH 25.00
50.96	90TH	24.00	64.65	85TH 25.20
61.82	95TH	24.34	65.65	90TH 25.45 95TH 25.85
62.33	97TH		66.34	301H 70.85
62.67		24.67		97TH 26.12
63.14	99TH	24.86	66.87	98TH 26.33
03.14	JJ111	24.00	67.77	99TH 26.68

(4) ACROMION-RADIALE LENGTH

The distance between the acromion landmark on the tip of the right shoulder and the radiale landmark on the right elbow is measured with a beam caliper held parallel to the long axis of the arm. The subject stands erect. The shoulders and upper extremities are relaxed with the palms facing the thighs.





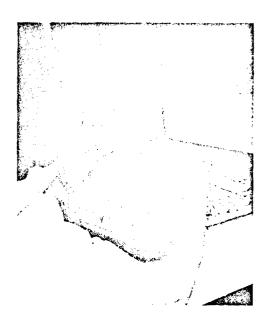
VARIABLE NO. 4—ACROMICN-RADIALE LENGTH

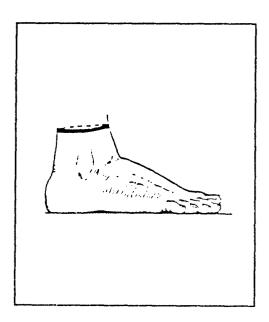
FEMALES

THE SUM	MARY STATI	ISTICS	THE SU	MARY STAT	ISTICS
CENTIMETER	S	INCHES	CENTIMET		INCHES
32.15	MEAN	12.66	34.36	MEAN	13.53
	SE (MEAN)		0.08		
	ST DEV		1.68		0.66
0.05			0.05	SI DEV	
0.05	3E(3D)	0.02	0.05	SE(SD)	0.02
29.50	MUNIMUM	11.61	30.20	MINIMUM	11.89
	MAXIMUM		39.20		
			33120		13143
COEFF. OF V	VARIATION	3.7%	COEFF. OF	VARIATION	4.9%
SYMMETRY	-VETA I	0.50	SYMMETRY-	VETA I	0.11
KURTOSIS	-VETA II	3.06	KURTOSIS-		
	_		103120020	1211 11	2.00
NUMBER OF S	UBJECTS	334	NUMBER OF	SUBJECTS	487
			-		
me	TANKETITE TO		_		
	RCENTILES		_	PERCENTILE	_
CENTIMETER	S S	INCHES	CENTIMETE	TRS .	INCHES
29.87	a cm	11 70	20.40	2 000	
	1ST	11.76	30.49		
30.10	2ND		30.98		
30.24	3RD	11.91	31.28	3RD	12.31
30.43	5 TH	11.98	31.66	5TH	12.47
30.73	10TH	12.10	32.24	TOTH	12.69
30.95	15TH	12.18	32.63	15TH	12.85
31.13	20TH	12.25	32.93	20TH	12.97
31.29	25TH	12.32	33.20		
31.44	30TH	12.38	33.45		
31.59	35TH	12.44	33.67		13.26
31.73	40TH	12.49	33.89	2211	13.20
31.88	45TH	12.55		40TH	13.34
	-		34.11	45TH	
32.03	50TH	12.61	34.32	50TH	
32.18	55TH	12.67	34.54	55TH	13.60
32.34	60TH	12.73	34.76	60TH	13.69
32.51	65TH	12.80	34.99	65TH	13.78
32.69	70TH	12.87	35.24	70TH	13.87
32.90	75TH	12.95	35.51	75TH	
33.13	80TH	13.04	35.81	HT08	14.10
33.40	85TH	13.15	36.16	85TH	
33.75	90TH	13.29	36.60		
34.25	95TH	13.49			14.41
			37.22	95TH	
34.57	97TH	13.61	37.60		14.80
34.79	98TH	13.70	37.85	- · · · -	14.90
35.10	99TH	13.82	38.22	99TH	15.05

(5) ANKLE CLIRCUMFERENCE

The minimum horizontal circumference of the right ankle is measured with a tape. The subject stands with the feet about 10 cm apart and the weight distributed equally on both feet.





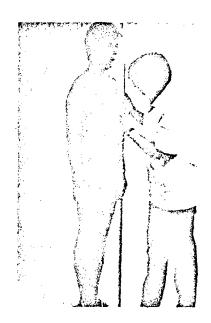
VARIABLE NO. 5-ANKLE CIRCUMFERENCE

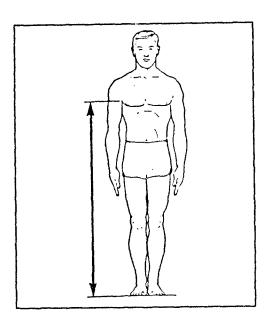
FEMALES

THE SUM	MARY STATI	STTCS	THE SUMMARY STATISTICS
CENTIMETE		INCHES	CENTIMETERS INCHES
CL1,11111111		11101111	
20.93	MEAN	8.24	22.09 MEAN 8.70
	SE (MEAN)		
	•		·
	ST DEV	0.44	1.22 ST DEV 0.48
0.04	SE (SD)	0.02	0.04 SE(SD) 0.02
10 00	MATERIAN IN	7 00	10.00 MINIDAW 7.40
	MINIMUM	7.09	18.80 MINIMUM 7.40
24.30	MAXIMUM	9.57	25.40 MAXIMUM 10.00
COEFF. OF	VARIATION	5.4%	COEFF. OF VARIATION 5.5%
SYMMETRY			SYMMETRYVETA I 0.20
	VETA II		KURIOSISVETA II 2.64
101110015	VLIM II	2.55	NORTOSISVLIA II 2.04
NUMBER OF	STIRTECTS	334	NUMBER OF SUBJECTS 487
normality of	DOMECIO	334	Normal of Bomblets 407
F	ERCENTILES		PERCENTILES
CENTIMETE		INCHES	CENTIMETERS INCHES
	-		The second secon
18.42	1ST	7.25	19.58 1ST 7.71
18.67	2ND	7.35	19.83 2ND 7.81
18.84	3RD	7.42	
19.09	5TH	7.52	20.20 5TH 7.95
19.48	10TH	7.67	20.56 10TH 8.09
19.75	15TH	7.78	
19.73	20TH		
		7.86	21.02 20TH 8.28
20.16	25TH	7.94	21.21 25TH 8.35
20.33	301H		21.38 30TH 8.42
20.48	351H	3.06	21.55 35TH 8.48
20.63	40TH	8.12	21.71 40TH 8.55
20.77	45TH	8.18	21.87 45TH 8.61
20.91	501 H	8.23	22.03 50TH 8.67
21.05	55TH	8.29	22.19 55TH 8.74
21.19	60TH	8.34	22.36 60TH 8.80
21.34	65TH	8.40	22.53 65TH 8.87
21.50	70TH	8.46	22.72 70TH 8.94
21.67	75TH	8.53	22.92 75TH 9.03
21.86	80TH	8.61	23.15 80TH 9.12
22.09	85TH	8.70	23.42 85TH 9.22
22.39	90TH	8.81	23.75 90TH 9.35
22.85	95TH	9.00	24.23 95TH 9.54
23.18	97TH	9.13	24.52 97TH 9.65
23.44	98TH	9.23	
23.88	99TH	9.40	25.00 99TH 9.84

(6) AXILLA HEIGHT

The vertical distance between a standing surface and the right axillary fold, as designated by the anterior-scye-on-the-torso landmark, is measured with an anthropometer. The subject stands erect looking straight ahead. The heels are together with the weight distributed equally on both feet. The shoulders and upper extremities are relaxed with the palms facing the thighs. The measurement is taken at the maximum point of quiet respiration.





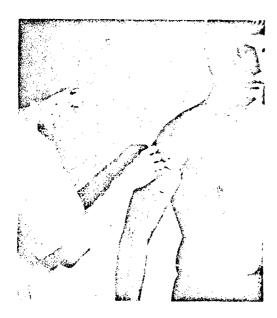
VARIABLE NO. 6-AXILLA HEIGHT

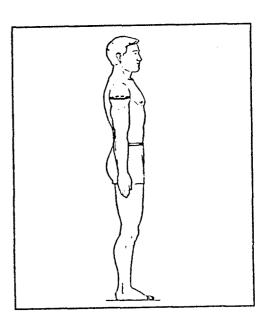
FEMALES

THE SUM	MARY STAT	TSTTCS	ਸਮ ਦ ਵਸ	Mary Stati	COUT CC
CENTIMETE		INCHES	CENTIMET		INCHES
		21(4112)	CLAVIII		mans
127.32	MEAN	50.13	133.22	MEAN	52.45
	SE (MEAN)		0.25		
3.82	ST DEV	1.50			2.18
0.15	SE(SD)	0.06	0.18	ST DEV SE(SD)	
5525	()	*****	0.10	05(00)	. 0.07
115.70	MINIMUM		117.50	MINIMUM	
145.20	MAXIMUM	57.17	148.50	MAXIMUM	58.46
COEFF. OF				VARIATION	
SYMMETRY			SYMMETRY		-0.04
KURTOSIS	VETA II	4.12	KURTOSIS-	VETA II	2.72
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
					107
٠.		_			
	ERCENTILES		CENTIMETI CENTIMETI	PERCENTILES	
CENTIMETE	RS	INCHES	CENTIMETI	RS	INCHES
119.43	1ST	47.02	120.28	1ST	47.35
120.24	2ND		121.84		
120.77		47.55	122.81		48.35
121.51		47.84	124.10		
122.70	1071	48.31	126.07		
123.52		48.63	127.41	15TH	50.16
124.18	20TH	48.89	128.47	20TH	
124.76		49.12	129.39		
125.28		49.32	130.23		
125.77	35774	49.52	131.01		
126.24		49.70	131.75		
126.70	45TH	49.88	132.47	40TH	
127.15	50TH	50.06		45TH	52.15
127.13			133.19	50TH	
	55TH	50.24	133.92	55TH	
128.08	60TH	50.43	134.65		53.01
128.58	65TH	50.62	135.42	65TH	53.31
129.10	701H	50.83	136.22	70TH	53.63
129.68	75TH	51.05	137.08	75TH	53.97
130.34	HI08	51.31	138.05	HT08	54.35
131.12	85TH	51.62	139.15	85TH	54.78
132.13	90TH	52.02	140.50	90TH	55.32
133.72	95TH	52.65	142.40	95TH	56.06
134.81	97TH	53.07	143.52		
135.64	98TH	53.40	144.27	0.007	
137.03	99TH	53.95	145.31	981H 99TH	57.21
			210101	2211	J/121

(7) AXILLARY ARM CIRCUMFERENCE

The circumference of the right upper arm perpendicular to its long axis at the level of the anterior-scye-on-the-upper arm landmark is measured with a tape. The subject stands erect looking straight ahead with shoulders and upper extremities relaxed and the palms facing the sides.





VARIABLE NO. 7-AXILLARY ARM CIRCUMFERENCE

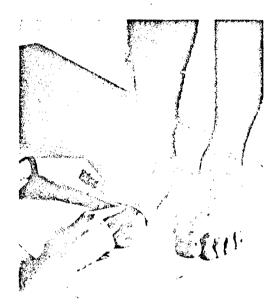
FEMALES

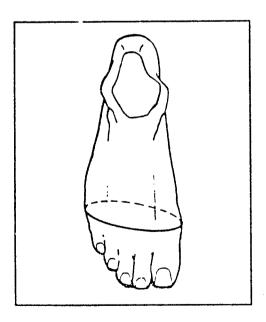
			-			
THE SUM	Mary Stati	STICS INCHES		THE SUM	Mary Stati RS	STICS INCHES

29.46	MEAN	11.60		33.70	MEAN	13.27
	SE (MEAN)	0.06			SE (MEAN)	0.04
2.63	ST DEV	1.04		2.22	ST DEV	0.87
0.10	SE(SD)	0.04		0.07	SE(SD)	0.03
22.70	MINIMUM	8.94		26.20	MINIMUM	10.31
37.70	MAXIMUM	14.84		39.20	MUMIXAM	15.43
COEFF. OF	VARIATION	8.9%		COEFF. OF	VARIATION	6.6%
SYMMETRY		0.28		SYMMETRY		-0.15
KURTOSIS		2.94		KURTOSIS-		2.77
144000 AD	~~~~~~~~~~	004			or marriana	407
NUMBER OF	SUBJECTS	334		NUMBER OF	SUBJECTS	487
			~			
I	PERCENTILES	;		I	PERCENTILES	
CENTIMETE	ERS	INCHES		CENTIMETE	RS	INCHES
23.75	1ST	9.35		28.60	1ST	11.26
24.48	2ND	9.64		29.14	2ND	11.47
24.90	3RD	9.80		29.49	3RD	11.61
25.44	5TH	10.02		29.99	5TH	11.81
26.23	10TH	10.33		30.79	10TH	12.12
26.77	15TH	10.54		31.35	15TH	12.34
27.20	20TH	10.71		31.79	20TH	12.52
27.58	25TH	10.86		32.18	25TH	12.67
27.93	30TH	11.00		32.53	30TH	12.81
28.27	35TH	11.13		32.85	35TH	12.93
		11.26		33.16		
28.60	40TH				40TH	13.05
28.93	45TH	11.39		33.46	45TH	13.17
29.26	50TH	11.52		33.75	50TH	13.29
29.61	55TH	11.66		34.04	55TH	13.40
29.96	60TH	11.80		34.33	60TH	13.52
30.34	65 TH	11.95		34.63	65TH	13.64
30.75	70TH	12.11		34.95	70TH	13.76
31.20	75TH	12.28		35.29	75TH	13.89
31.71	HT08	12.48		35.66	HT08	14.04
32.30	85TH	12.72		36.08	85TH	14.20
33.05	90TH	13.01		36.59	90TH	14.41
34.11	95TH	13.43		37.32	95TH	14.69
34.75	97TH	13.68		37.76	97TH	14.86
35.17	98TH	13.85		38.06	98TH	14.99
35.74	99TH	14.07		38.52	99TH	15.16
33.74	22111	14.07		20.02	22311	10.10

(8) BALL OF FOOT CIRCUMFERENCE

The circumference of the foot at the first and fifth metatarsophalangeal landmarks on the ball of the right foot is measured with a tape. The subject stands with the feet about 10 cm apart and the weight distributed equally on both feet.





VARIABLE NO. 8-BALL OF FOOT CIRCUMFERENCE

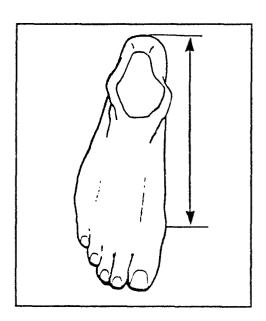
FEMALES

THE SUM	Mary Stati	STICS INCHES	THE SUMMARY STATISTIC CENTIMETERS INCH	
C1411111111		THULL	CHAILEIING INCI	بعد
22.65	MEAN	8.92	24.84 MEAN 9.	78
0.06	SE (MEAN)	0.02	0.05 SE(MEAN) 0.	02
1.04	ST DEV	0.41	1.14 ST DEV 0.	45
0.04	SE(SD)	0.02	0.04 SE(SD) 0.	01
00.10	100000000	= 44		
	MINIMUM	7.91		46
26.20	MAXIMUM	10.31	28.00 MAXIMUM 11.	02
COEFF. OF	VARIATION	4.6%	COEFF. OF VARIATION 4.	6%
SYMMETRY-	VETA I	0.16	SYMMETRYVETA I O.	31
KURTOSIS-	VETA II	2.86	KURTOSISVETA II 2.	99
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS 4	87
		·		
F	PERCENTILES	}	PERCENTILES	
CENTIMETE	PS	INCHES	CENTIMETERS INCH	ES
20.33	1ST	8.00	22.39 1ST 8.	81
20.60	2ND	8.11		93
20.78	3RD	8.18		00
21.00	5TH	8.27	23.09 5TH 9.	
21.34	1011	8.40	23.44 10TH 9.	
21.58	15TH	8.49	23.67 15TH 9.	
21.76	20TH	8.57		40
21.93	25TH	8.63	24.03 25TH 9.	
22.07	30TH	8.69	24.19 30TH 9.	
22.21	35TH	8.75		58
22.35	40TH	8.80	24.47 40TH 9.	
22.48	45TH	8.85	24.61 45TH 9.	
22.61	50TH	8.90	24.76 50TH 9.	
22.75	55TH	8.96	24.90 55TH 9.	
22.89	60TH	9.01	25.05 60TH 9.	
23.03	65TH	9.07	25.21 65TH 9.	
23.18	70TH	9.13		99
23.16	75TH	9.19	25.59 701H 9. 25.58 75TH 10.	
23.54	HTO8	9.27		
23.76	85TH	9.27	25.80 80TH 10.	
23.76			26.05 85TH 10.	
	90TH	9.46	26.39 90TH 10.	
24.44	95TH	9.62	26.89 95TH 10.	
24.68	971H	9.72	27.22 97TH 10.	
24.85	98TH	9.78	27.46 98TH 10.	
25.10	99TH	9.88	27.82 99TH 10.	95

(9) PALL OF FOOT LENGTH

The distance from the back of the heel to the landmark at the first metatarsophalangeal protrusion on the ball of the right foot is measured in a footbox. The subject stands erect with each foot in a footbox. The weight is distributed equally on both feet. The medial side of the right foot is parallel with the long axis of the box.





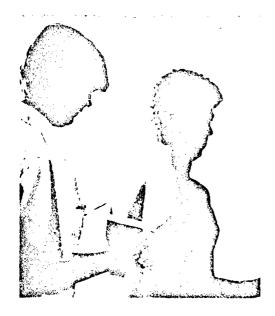
VARIABLE NO. 9-BALL OF FOOT LENGTH

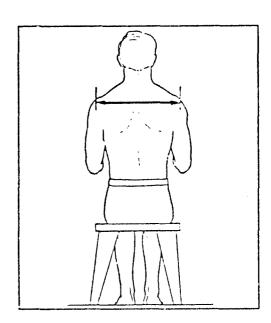
FEMALES

			· · · · · · · · · · · · · · · · · · ·		
THE SUM	mary stati	STICS	THE SUM	Mary Stat	ISTICS
CENTIMETE	R S	INCHES	CENTIMETE	RS	INCHES
18.20	MEAN	7.16	19.72	MEAN	7.76
0.04	SE (MEAN)	0.02	0.04		0.02
0.77	ST DEV	0.30	0.94	• •	0.37
0.03	SE(SD)	0.01	0.03	SE(SD)	0.01
0.05	3L(3D)	0.01	0.03	3E (3D)	0.01
16.20	MINIMUM	6.38	17.30	MINIMUM	6.81
20.50		8.07	23.20	MAXIMUM	9.13
20.50	PHALITOPI	0.07	23.20	MAXIMON	9.13
COEFF. OF	VARIATION	4.2%	COEFF. OF	VARIATION	4.8%
SYMMETRY-		0.35	SYMMETRY		
KURTOSIS		3.09	KURTOSIS		2.99
101(10015	ATITY II	3.03	10/10013	VLIA II	2.33
NUMBER OF	SUBTECTS	334	NUMBER OF	STRATE	487
HOLDERY OF	DOMECIB	334	Norther of	CODICID	407
***************************************	·		-		
ī	ERCENTILES		Q	ERCENTILES	3
CENTIMETE		INCHES	CENTIMETE		INCHES
W21121D11	10	11.02.00	CLIVITALITA		паш
16.61	1ST	6.54	17.56	1ST	6.91
16.77	2ND	6.50	17.82	2ND	7.01
16.88	3RD	6.64	17.98	3RD	7.08
17.02	5TH	6.70	18.19	5TH	7.16
17.25	10TA	6.79	18.52	10TH	7.10
17.41	15TH	6.85	18.74	15TH	7.38
17.54	20TH	6.91	18.91	201H	
17.65	25TH	6.95	19.06	25TH	7.51
17.76	30TH	6.99	19.20	30TH	7.56
17.86	35TH	7.03	19.33	35TH	7.61
17.95	40TH	7.07	19.45	40TH	7.66
18.05	45TH	7.11	19.57	45TH	7.71
18.14	50/TH	7.14	19.69	50TH	7.75
18.24	55TH	7.18	19.81	55TH	7.80
18.34	60TH	7.10			
			19.93	60TH	7.85
18.45	65TH	7.26	20.06	65TH	7.90
18.56	70TH	7.31	20.20	70TH	7.95
18.69	75TH	7.36	20.34	75TH	8.01
18.83	HT08	7.41	20.51	801H	8.08
19.00	85TH	7.48	20.70	85TH	8.15
19.22	90TH	7.57	20.95	90TH	8.25
19.55	95TH	7.70	21.31	95TH	8.39
19.77	97TH	7.78	21.54	97TH	8.48
19.93	98TH	7.75	··		- -
			21.71	98TH	8.55
20.19	99TH	7.95	21.97	99TH	8.65

(10) BIACROMIAL BREADIH

The distance between the right and left acromion landmarks at the tips of the shoulders is measured with a beam caliper. The subject sits erect. The shoulders and upper arms are relaxed and the forearms and hands are extended forward horizontally with the palms facing each other. The measurement is taken at the maximum point of quiet respiration.





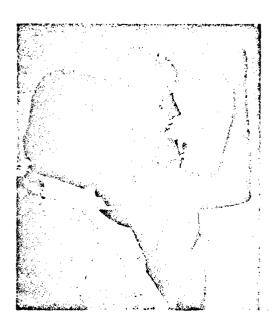
VARIABLE NO. 10-BIACROMIAL EXEADIH

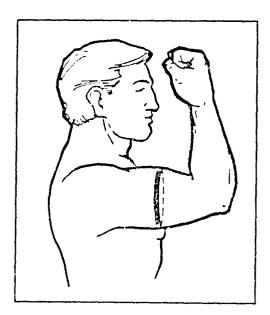
FEMALES

THE SUMM	ARY STAT	TISTICS		नामाः दाः	MMARY STAT	mcmr~
CENTIMETERS		INCHES		CENTIMET		
				CENTIMET	EKO.	INCHES
36.93	MEAN	14.54		40.06	MEAN	15.77
0.08 5	E (MEAN)	0.03		0.08		
	ST DEV			1.74		
	SE(SD)				ST DEV	
	()	0.02		0.06	SE (SD)	0.02
32.50 M	MUMINI	12.80		34.70	MINIMUM	13.66
41.20 M	MUMIXA	16.22		45.20		
				45.20	LEVILLE	17.80
COEFF. OF VA	RIATION	4.1%		COEFF. OF	VARIATION	4.4%
SYMMETRY	VETA I	-0.13		SYMMETRY-		
KURTOSIS	VETA II	2.65		KURTOSIS-		
					VEIN 11	2.33
NUMBER OF SU	BJECTS	334		NUMBER OF	CT TO TEVANO	407
		_		TO TELL OF	BODECIS	487
			-			
PER	CENTILE	s ·		τ	ERCENTILE	•
CENTIMETERS		INCHES		CENTIMETE		₹
				CHATTACTE	<i>r</i> \$	INCHES
33.72	1ST	13.27		35.78	100	
33.95	2ND	13.37			1ST	4
34.14	3RD	13.44		36.29	2ND	
34.42	51H	13.55		36.61	3RD	14.41
34.93	10TH	13.75		37.06	5TH	14.59
35.30	15TH	13.75		37.75	101H	14.86
35.61	20111			38.22	157H	15.05
35.88		14.02		38.59	20 TH	15.19
36.13	25TH	14.13		38.90	25TH	15.31
	301H	14.22		39.17	30TH	15.42
36.36	35TH	14.31		39.43	35TH	15.52
36.57	40TH	14.40		39.66	40TH	15.62
36.78	45TH	14.48		39.89	45TH	15.70
36.99	501H	14.56		40.11	50TH	15.79
37.19	55TH	14.64		40.33	55TH	15.88
37.39	60TH	14.72		40.55	601H	15.96
37. 59	65TH	14.80		40.77	65TH	
37.81	70TH	14.88		41.01	70TH	16.05
38.03	75TH	14.97		41.26		16.14
38.27	80TH	15.07		41.20	75TH	16.24
38.54	85TH	15.17			80TH	16.35
38.87	90TH	15.30		41.85	85TH	16.48
39.32	95TH	15.48		42.25	90TH	16.63
39.58	97TH	15.58		42.85	95TH	16.87
39.77	98TH			43.24	97 TH	17.02
40.05		15.66		43.54	98TH	17.14
40.03	99TH	15.77		44.02	99TH	17.33

(11) BICEPS CIRCUMFERENCE, FLEXED

The circumference of the right upper arm around the flexed biceps muscle is measured with a tape held perpendicular to the long axis of the upper arm. The subject stands with the upper arm extended horizontally and the elbow flexed 90 degrees. The fist is clenched and held facing the head, and the subject exerts maximum effort in "making a muscle."



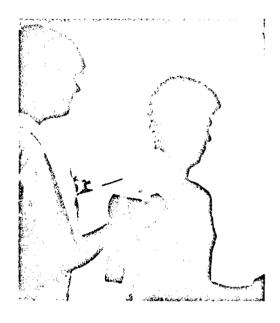


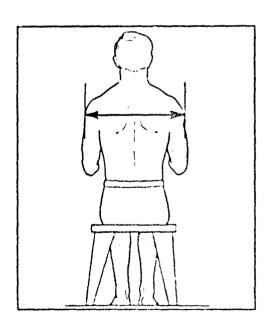
VARIABLE NO. 11—BICEPS CIRCUMFERENCE, FLEXED FEMALES MALES

THE SUMM CENTIMETERS					MARY STAT	
CENTIMETER	>	INCHES		CENTIMETI	ERS	INCHES
28.30	MEAN	11.14		33.46	MEAN	13.17
	SE (MEAN)	0.05			SE (MEAN)	
	ST DEV			2.32	ST DEV	0.04
	SE(SD)			0.07	SE(SD)	0.03
	, ,			0.07	OL (OD)	0.03
	MUMIKII			26.50	MINIMUM	10.43
37.10 N	MUMIXA	14.61		41.50		1 7 7
COPPE OF IN	DTATTON					
COEFF. OF VA					VARIATION	
SYMMETRY		0.37		SYMMETRY-		
KURTOSIS	-VETA II	3.10		KURIOSIS-	VETA II	3.16
NUMBER OF SU	JEJECTS	334		NUMBER OF	SUBJECTS	487
	······································		- .			······································
PER	CENTILES	;		F	ERCENTILES	3
CENTIMETERS	5	INCHES		CENTIMETE		INCHES
22 22						
22.97	1ST			.28.01	lst	
23.83	SND	9.38		28.73	SND	
24.28	3RD	9.56		29.17		
24.82	5TH	9.77		29.72		11.70
25.53	10TH			30.55		12.03
25.97	15TH	10.22		31.09		
26.32	20TH	10.36		31.51		12.41
26.63	25TH	10.49		31.88	25TH	12.55
26.93	30TH	10.60		32.21		12.68
27.21	35TH	10.71		32.51	35TH	12.80
27.49	40TH	10.82		32.81	40TH	12.92
27.77	45TH	10.93	,	33.09	45IH	
28.07	50TH	12.05		33.38	50TH	13.14
28.37	55TH	11.17		33.67		
28.69	EQIH	11.30		33.97		13.37
29.04	65TH	11.43		34.28	65TH	13.49
29.42	701H	11.58		34.61	70TH	13.62
29.83	757H	11.75		34.97	75TH	13.77
30.31	801H	11.93		35.38	80111	
30.87,	85TH	12.15		35.86	85 TH	14.12
31.57	901H	12.43		36.47	90111	14.36
32.53	95TH	12.81		37.37	95'IH	14.71
33.05	97TH	13.01		37.95	97111	14.94
33.37	98TH	13.14		38.36	11186	15.10
33.69	997H	13.27		38.99	99TH	15.35

(12) BIDELTOID EREADIH

The maximum horizontal distance between the lateral margins of the upper arms on the deltoid muscles is measured with a beam caliper. The subject sits erect looking straight ahead. The shoulders and upper arms are relaxed and the forearms and hands are extended forward horizontally with the palms facing each other. The measurement is made at the maximum point of quiet respiration.





VARIABLE NO. 12-BIDELTOID ERFADIH

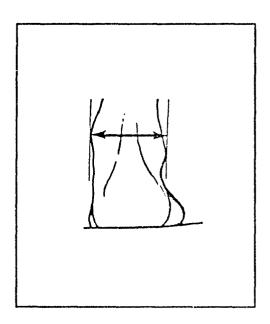
FEMALES

THE SUM	Mary Stati	STICS	THE SUM	MARY STAT	STICS
CENTIMETE	RS	INCHES	CENTIMETE	RS	INCHES
43.92			49.57		
	SE (MEAN)		0.10		0.04
2.22	ST DEV SE(SD)	0.87	2.31	ST DEV SE(SD)	0.91
0.09	SE(SD)	0.03	0.07	SE (SD)	0.03
	MUNIMUM			MUNIMUM	
53.20	MUMIXAM	20.94	57.30	MAXIMUM	22.56
COEFF. OF	VARIATION	5.0%	COEFF. OF	VARIATION	
SYMMETRY	VETA I	0.14	SYMMETRY		
KURTOSIS	VETA II	3.61	KURTOSIS	VETA II	3.16
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
	ERCENTILES			ERCENTILES	3
CENTIMETE		INCHES	CENTIMETE		INCHES
38.36	1ST	15.10	43.93	1ST	17.29
39.27	2ND	15.46	44.81	2ND	
39.77	3RD		45.30	3RD	17.84
40.38	5TH	15.90	45.91	5TH	18.07
41.20	101H	16.22	46.75	101H	18.41
41.71	15TH		47.28	15TH	
42.10	20TH	16.58	47.68	201H	
42.44	25TH	16.71	48.04	25TH	
42.74	30TH 35TH	16.83	48.35	30TH 35TH	19.04
43.02			48.65		
43.29	40TH		48.93	40TH	19.26
43.56	45TH	17.15	49.21	45TH	
43.83	50TH		49.49	50TH	
44.11	55TH		49.78	55TH	19.60
44.39	60TH	17.48	50.07	60TH	19.71
44.69	65TH	17.59	50.39	65TH	19.84
45.01	70TH	17.72	50.72	/U1H	19.97
45.37	75TH	17.86	51.09	75TH	20.11
45.77	HTOS	18.02	51.50	HIOS	
46.24	85TH	18.20	51.99	85TH	20.47
46.82	90TH	18.43	52.60	901H	20.71
47.65	95TH	18.76	53.47	95TH	21.05
48.14	97TH		53.99	97TH	
48.46	98TH		54.33	98'IH	
48.86	99111	19.24	54.79	99TH	21.57

(13) BIMALLEOLAR BREADTH

The horizontal distance between the maximum protrusions of the ankle bones (lateral and medial malleoli) of the right foot is measured with a Holtain caliper. The subject stands with the weight equally distributed on both feet.





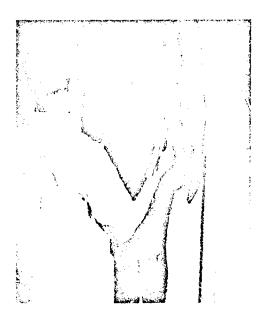
VARIABLE NO. 13—BIMALLEDIAR BREADIH

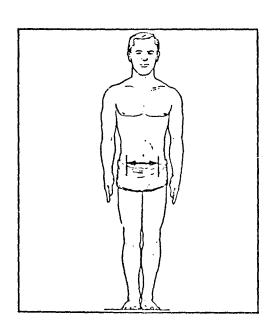
FEMALES

क्सर दार	Mary Stati	STITCS	THE SUMMARY STAT	Termoe
CENTIMETE		INCHES	CENTIMETERS	INCHES
Charles		במוגאונג	CENTIFIERS	Thomas
6.56	MEAN	2.58	7.22 MEAN	2.84
0.02			0.02 SE(MEAN)	
			· · · · · · · · · · · · · · · · · · ·	
	ST DEV	0.11	0.35 ST DEV	
0.01	SE(SD)	0.00	0.01 SE(SD)	0.00
E 00	MATATTAGAG	0 00	C 20 15777574	2 42
	MINIMUM		6.30 MINIMUM	
7.40	MAXIMUM	2.91	8.50 MAXIMUM	3.35
COEFF. OF	VARIATION	4.4%	COEFF. OF VARIATION	4.9%
SYMMETRY		0.22	SYMMETRY——VETA I	
KURTOSIS		2.67	KURIOSIS—VETA II	
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS	487
PERCENTILES			PERCENTILE	S
CENTIMETE	RS	INCHES	CENTIMETERS	INCHES
5.96	1ST	2.35	6.36 1ST	2.50
6.01	2ND	2.37	6.47 2ND	2.55
6.04	3RD	2.38	6.54 3RD	2.58
6.09	5TH	2.40	6.63 5TH	2.61
6.18	10TH	2.43	6.77 10TH	2.66
6.25	15TH	2.46	6.86 15TH	2.70
6.30	20TH	2.48	6.93 20TH	2.73
6.35	25TH	2.50	6.98 25TH	
6.39	30TH	2.52	7.04 30TH	
6.43	35TH	2.53	7.08 35TH	
6.47	40TH	2.55		
6.51		2.56		
	45TH		7.17 45TH	
6.55	50TH	2.58	7.21 50TH	
6.58	55TH	2.59	7.25 55TH	
6.62	60TH	2.61	7.29 60TH	
6. 66	65TH	2.62	7.34 65TH	2.89
6.71	70TH	2.64	7.39 70TH	2.91
6.75	75TH	2.66	7.44 75TH	2.93
6.80	80TH	2.68	7.50 80TH	2.95
6.86	85TH	2.70	7.57 85TH	
6.94	90TH	2.73	7.66 90TH	
7.05	95TH	2.78	7.81 95TH	
7.12	97TH	2.80	7.92 9711	
7.12				
	9871	2.83	98TH	
7.26	99TH	2.86	8.15 99TH	3.21

(14) BISPINOUS EREADIH

The straight-line distance between the right and left anterior superior iliac spine landmarks is measured with a beam caliper. The subject stands looking straight ahead with the heels together and the weight distributed equally on both feet.





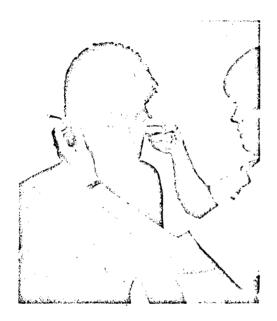
VARIABLE NO. 14—BISPINOUS ERFADIH

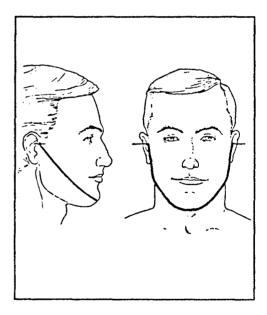
FEMALES

				
THE SUMMA CENTIMETERS		STICS INCHES	THE SUMMARY STA	ATISTICS INCHES
23.38	MEAN	9.21	23.70 MEAN	9.33
0.10 8	E (MEAN)	0.04	0.08 SE(MEAN	0.03
1.86	ST DEV	0.73	1.73 ST DE	7 0.68
0.07	SE(SD)	0.03	0.06 SE(SD)	0.02
19 00 3	MUMINIM	7 48	19.60 MINIMU	4 7.72
	MUMIXA		29.80 MAXIMUI	
29.30 I	NAVITATOIA	11.04	29.80 MAXIMO	1 11.75
COEFF. OF VA	ARIATION	8.0%	COFFF. OF VARIATION	ON 7.3%
SYMMETRYVETA I		0.16	SYMMETRY——VETA	I 0.26
KURIOSIS	-VETA II	2.87	KURTOSISVETA	II 2.90
NUMBER OF SUBJECTS		334	NUMBER OF SUBJECTS	5 487
				
PERCENTILES		5	PERCENTI)	LES
CENTIMETERS	5	INCHES	CENTIMETERS	INCHES
19.24	1ST	7.57	20.15	r 7.93
19.66	2ND	7.74	20.43 2N	
19.94	3RD			8.13
20.34	5TH	8.01	20.95 5TI	
20.93	10TH	8.26	21.48 1011	H 8.46
21.42	15TH	8.43	01.06 1.07	
21.78	20TH	8.57	22.18 2011	H 8.61
22.09	25TH	8.70	22.46 25Th	H 8.84
22.37	30TH	8.81	22.72 3011	
22.62	35TH	8.91		1 9.04
22.87	40TH	9.00	23.19 4011	4 9.13
23.11	45TH	9.10	23.41 451	H 9.22
23.35	50TH	9.19	23.64 50TF	
23.58	55TH	9.28	23.87 5511	
23.82	60TH	9.38		H 9.49
24.07		9.48	24.34 65TI	
24.33	70TH	9.58		H 9.68
24.62	75TH	9.69	2/ 07 7500	7 0 70
24.94	HT08	9.82	25.18 80Th	1 9.91
25.31	85TH	9.96	25.54 8511	1 10.05
25.78	90TH	10.15	25.99 901	
26.51	95TH	10.44	26.67 9511	
26.99	97TH	10.62	27.11 971	
27.35	98TH	10.77	27.44 9813	
27.94	99TH	11.00	27.95 991	

(15) BITRAGION CHIN ARC

The surface distance between the right and left tragion landmarks across the chin landmark at the tip of the chin is measured with a tape. The teeth are slightly occluded.





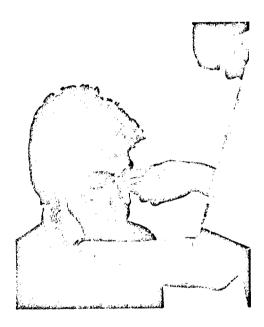
VARIABLE NO. 15-BITRAGION CHIN ARC

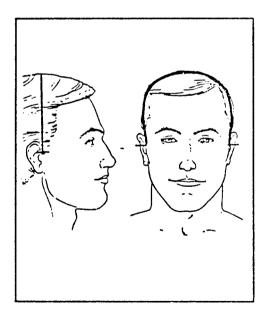
FEMALES

THE SUMMARY STATIS				Mary Stati	
CENTIMETE	RS	INCHES	CENTIMETT	ers	INCHES
30.08	MEAN	11.84	32.88	MEAN	12.94
0.06	SE (MEAN)	0.02		SE (MEAN)	0.02
	ST DEV	0.44	1.19	ST DEV	0.47
0.04		0.02	0.04		0.02
27 20	MINIMUM	10.71	20.70	MUNIMIM	11 20
33.30					14.49
33.30	MAXIMON	13.11.	30.60	PHAINCH	14.49
COEFF. OF	VARIATION		COEFF. OF	VARIATION	3.6%
SYMMETRY	VETA I	0.20	SYMMETRY—	VETA I	0.18
KURTOSIS	VETA II	2.85	KURIOSIS-	VETA II	3.37
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
PERCENITIES			PERCENTILES	,	
CENTIMETE		INCHES	CENTIMETI		INCHES
CENTIMETE		THATES	CENTIMETI	2,7.3	THOUS
27.67	1ST	10.89	30.16	1ST	11.87
27.92	2ND	10.99	30.51	2ND	12.01
28.08	3RD	11.06	30.73	3RD	12.10
28.30	5TH	11.14	31.01	5TH	12.21
28.66	10TH	11.28	31.43	10TH	12.37
28.91	15TH	11.38	31.70	15TH	12.48
29.11	20TH	11.46	31.91	20TH	12.56
29.29	25TH	11.53	32.09	25TH	12.64
29.46	30TH	11.50	32.26	30TH	12.70
29.61	35TH	11.66	32.41	35TH	12.76
29.75	40TH	11.71	32.55	40TH	
29.90	45TH	11.77	32.69	45TH	12.87
30.04	50TH	11.83	32.83	50TH	12.93
30.18.	55TH	11.88	32.98	55TH	12.98
30.33	60TH	11.94	33.12	60TH	13.04
30.48	65TH	12.00	33.28	65TH	
30.65	70TH	12.07	33.44	76 T H	13.17
30.83	75TH	12.14	33.62	75TH	13.24
31.03	HIOS	12.22	33.83	80TH	13.32
31.27	85TH	12.31	34.09	85TH	
31.57	90TH	12.43	34.42	90TH	13.55
32.02	95TH	1.2.61	34.94	95TH	
32.32	97TH	12.73	35.30	97TH	13.90
32.54	98TH	12.81	35.58		14.01
32.89	99TH	12.95	36.03	99TH	
			30.03		

(16) BITRAGION CORONAL ARC

The surface distance between the right and left tragion landmarks across the top of the head is measured with a tape. The head is in the Frankfort plane.





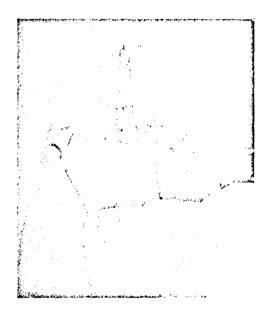
VARIABLE NO. 16-BITRAGION CORCAVAL ARC

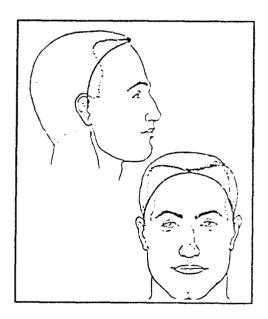
FEMALES

			-			
THE SUMMAR	V CODAG	TCTT~				
CENTIMETERS	T SIVI				mmary stat	ISTICS
CHATTMETERS		INCHES		CENTIMET	ers	INCHES:
33.77	MEA.	13.29				
•	(MEAN)			35.30		13.90
	•			0.06	SE (MEAN)	0.02
	I DEV	0.49		1.25	ST DEV	0.49
0.05 SI	E(SD)	0.02		0.04	SE(SD)	0.02
30.60 MIN	TT'S AT IS A	10.05			•	
		12.05		31.90	MUNIMUM	12.56
20.00 PAQ	MUMIX	14.96		39.80	MAXIMUM	15.67
COEFF. OF VARI	LATION	3.7%		COEFF. OF	TEATHERMEONE	
SYMMETRYVE						
KURTOSISVE				SYMMETRY-		0.18
	TV II	3.39		KURTOSIS-	VETA II	3.10
NUMBER OF SUBJ	TECTS	334		NUMBER OF	CI ID TIDAMA	
		55.		NUMBER OF	SUBJECTS	487
			•			
	MILE	S		ŗ	ERCENTILES	2
CENTIMETERS		INCHES		CENTIMETE		INCHES
						TITCHES.
30.85	1ST	12.15		32.50	1ST	12.79
31.23	2ND	12.29		32.80		
31.46	3RD	12.39		33.00	2ND	12.91
31.76	5TH	12.50			3RD	12.99
.	10TH	12.68		33.27	5TH	13.10
	15TH	12.80		33.70	10TH	13.27
	20TH			34.00	15TH	13.39
	-	12.89		34.24	20TH	13.48
	25TH	12.97		34.44	25 TH	13.56
	30TH	13.03		34.63	30TH	13.63
	35TH	13.10		34.80	35TH	13.70
	40TH	13.16		34.96	40TH	13.77
	45TH	13.22		35.12	45TH	13.83
	50TH	13.28		35.28	50TH	13.89
33.88	55TH	13.34		35.44	55TH	13.95
34.03	HTO	13.40		35.60	60TH	
34.19	55TH	13.46		35.76		14.01
34.36	70TH	13.53			65TH	14.08
	75TH	13.60		35.94	70TH	14.15
	BOTH	13.69		36.13	75TH	14.22
-	35TH			36.34	80TH	14.31
		13.79		36.59	85TH	14.40
	HTO	13.92		36.90	90TH	14.53
_	5TH	14.13		37.37	95TH	14.71
	7TH	14.28		37.67	97TH	14.83
	HT8	14.38		37.90	98TH	14.92
36. 99 9	9TH	14.56		38.26	99TH	15.06

(17) BURNGION CRINICH ARC

The surface distance between the right and left tragion landmarks across the top of the forehead at the lowest point of the hairline (crinion) is measured with a tape.





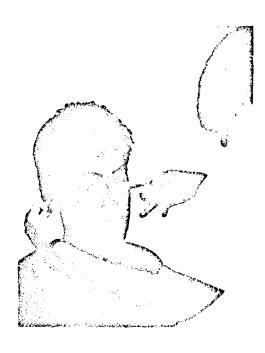
VARIABLE NO. 17-BITRAGION CRINION ARC

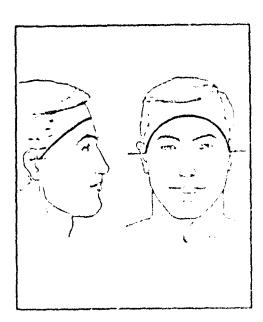
FEMALES

	Mary Stat	ISTICS	THE SU	mmary stat	ISTICS
CENTIMETE	TRS .	INCHES	CEVI INST	ERS	INCHES
22 04	10711	•• ••			
31.04	MEAN		32.78		12.90
	SE (MEAN)	0.02	0.05	, ,	0.02
1.05	ST DEV	0.41	1.12		0.44
0.04	SE(SD)	0.02	0.04	SE(SD)	0.01
	MUNIMUM	10.51	29.80	MINIMUM	11.73
34.70	MAXIMUM	13.66	36.30	MAXIMUM	14.29
COEFF. OF		3.4%	COEFF. OF	VARIATION	3.4%
SYMMETRY	VETA I	-0.01	SYMMETRY-		0.11
KUKTOSIS-	VETA II	3.97		VETA II	2.78
NUMBER OF	SUBJECTS	334	NUMBER OF	SUAJECTS	473
T.	ERCENTILES				**************************************
CENTIMETE		INCHES		PERCENTILES	
		TACTES	CE TIMET	ers .	INCHES
28.57	1ST	11.25	30.41	1ST	11.97
28.89	2ND	11.37	30.60	SND	_
29.09	3RD	11.45	30.74	3RD	12.10
29.36	5TH	11.56	30.95	5TH	12.19
29.76	10TH	11.72	31.32	10TH	
30.02	15TH	11.82	·1.59	15TH	12.44
30.22	20TH	11.90	31.81	20111	12.52
30.39	25TH	11.96	32.00	25TH	12.60
30.53	30TH	12.02	32.17	30TH	12.67
30.67	35TH	12.07	32.33	35TH	12.73
30.80	40TH	12.12	32.48	40TH	12.79
30.92	45TH	12.17	32.63	45TH	12.85
31.04	50TH	12.22	32.77	50TH	12.90
31.16	55'IH	12.27	32.92	55TH	12.96
31.28	60TH	12.32	33.06	601H	13.02
31.41	65TH	12.37	33.21	65TH	
31.54	70TH	12.42	33.37	701H	13.08
31.69	75TH	12.48			13.14
31.85	80TH	12.54	33.54	75TH	13.20
32.05	85TH	12.62	33.72	HI08	13.28
32.31	90TH	12.72	33.94	85TH	13.36
32.71	95TH		34.22	90TH	13.47
33.00		12.88	34.63	95TH	13.64
33.23	97TH	12.99	34.92	9/TH	13.75
33.61	98TH	13.08	35.13	98TH	13.83
23.01	99TH	13.23	35.49	99TH	13.97

(18) BITRAGION FRONTAL ARC

The surface distance between the right and left tragion landmarks across the forehead just above the ridges of the eyebrow is measured with a tape.





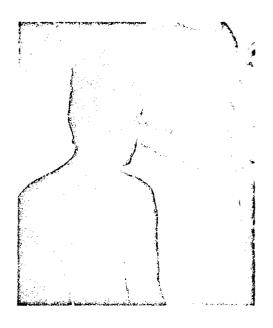
VARIABLE NO. 18-BITRAGION FRONTAL ARC

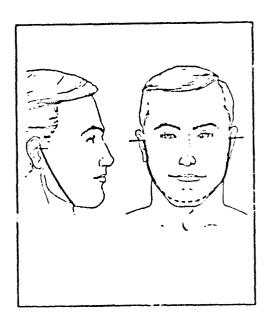
FEMALES

THE SUMMARY STA	TISTICS INCHES	THE SUI CENTIMET	MMARY STATISTIC	
28.85 MEAN	11.36	30,63	MEAN 12.	06
0.05 SE(MEAN			SE (MEAN) 0.	
0.97 ST DEV		1.01		
0.04 SE(SD)				40
0001 02(02)	0.01	0.03	SE(SD) 0.	01
25.80 MINIMUM	10.16	28.00	MINIMUM 11.	റാ
31.50 MAXIMUM			MAXIMUM 13.	
		201,12		41
COEFF. OF VARIATION		COEFF. OF	VARIATION 3.	3%
SYMMETRY——VETA		SYMMETRY—	VETA I O.	
KURTOSISVETA I	I 2.95		VETA II 2.	
NUMBER OF SUBJECTS	334	NUMBER OF	SUBJECTS 48	87
		VINCENS OF THE CONTROL OF THE CONTRO		
PERCENTILI	æ	-		
CENTIMETERS	INGLES		PERCENTILES	
	11/01/10	CENTIMETE	rs indi	es .
26.56 1SI	10.46	28.54	1ST 11.2	2.4
26.87 2ND	10.58	28.72	2ND 11.	
27.05 3RD	10.65	28.84		
27.29 5TH	10.74	29.03		
27.63 10TH	10.88		5TH 11.4	
27.85 15TH	10.97	29.34	10TH 11.5	
28.03 20TH	11.04	29.56	15TH 11.6	-
28.18 25TH	11.10	29.75	2011 11.7	
		29.91	25TH 11.7	-
	11.15	30.06	30TH 11.8	
28.45 35TH	11.20	30.20	35TH 11.8	39
28.58 40111	11.25	30.33	40TH 11.9)4
28.70 45TH	11.30	30.46	45TH 11.9))
28.83 50TH	11.35	30.59	50TH 12.0)5
28.95 55TH	11.40	30.73	55'IH 12.1	
29.08 60111	11.45	30.86	60TH 12.1	
29.22 65Tii	11.50	31.00	65TH 12.2	
29.36 70TH	11.56	31.14	701H 12.2	
29.52 75TH	11.62	31.30	75TH 12.3	
29.69 80TH	11.69	31.48		
29.90 85TH	11.77		801H 12.3	
30.15 90TH	11.87	31.69	85TH 12.4	
30.51 95TH	12.01	31.95	90TH 12.5	
30.72 971H		32.34	95TH 12.7	-
	12.10	32.60	97IH 12.8	
	12.15	32.79	98TH 12.9	1
31.06 99TH	12.23	33. 09	99TH 13.0	3

(19) BITPAGION SUEVANDUHULAR ARC

The surface distance between the right and left tragion landmarks across the submandibular landmark at the juncture of the jaw and the neck is measured with a tape. The head is in the Frankfort plane and the teeth are slightly occluded.





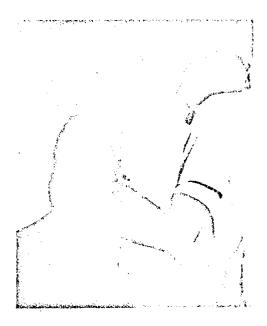
VARIABLE NO. 19-BITRACION SUBMANDIBUIAR ANC

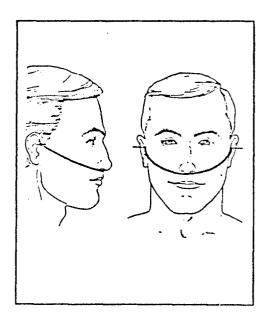
FEMALES

					·····
THE SUM	Mary Stati	STICS	THE SU	MMARY STATI	STICS
CENTIMETE	RS	INCHES	CENTIMET	ERS	INCHES
27.80	MEAN	10.94	30.89	MEAN	12.16
0.07		0.03	0.06		
1.28	ST DEV	0.50	1.30		0.51
	SE (SD)		0.04		
0.05	SE(SD)	0.02	0.04	SE(SD)	0.02
24.00	MINIMUM	9.45	27.80	MINIMUM	10.94
	MAXIMUM			MAXIMUM	
COEFF. OF			COEFF. OF	VARIATION	4.2%
SYMMETPY-		0.27	SYMETRY-		0.23
KURTOSIS-	VETA II	3.39	KURIOSIS-	VETA II	3.03
number of	SUBJECTS	334	NUMBER OF	SUBJECTS	487
			_		
r	ERCENTILES	•		PERCENTITLES	•
CENTIMETE					
CENTIMETE	wo.	INCHES	CENTIMET	exes .	INCHES
25.21	1ST	9.93	27.88	ısr	10.98
25.43	2ND	10.01	28.29		
25.58	3RD	10.07	28.53		11.23
25.81	5TH	10.16	28.84		
26.19	10TH	10.10			
			29.28		
26.48	15TH		29.58		
26.71	20TH	10.51	29.81		
26.91	25TH	10.59	30.00		11.81
27.09	30TH	10.67	30.18	30TH	11.88
27.27	35TH	10.74	30.35	35TH	11.95
27.44	40TH	10.80	30.51		
27.60	45TH	10.87	30.67		12.08
27.76	50TH	10.93	30.83		12.14
27.70	55TH	10.99			
			30.99		12.20
28.09	60TH	11.06	31.16		12.27
28.26	65TH	11.13	31.34		12.34
28.44	70TH	11.20	31.53		12.41
28.64	75TH	11.28	31.73		12.49
28.87	HIOS	11.36	31.97	HTOS	12.59
29.13	85TH	11.47	32.25		12.70
29.46	90TH	11.60	32.61		12.84
29.97	95TH	11.80	33.14		13.05
30.31	971H		33.48		
		11.93			13.18
30.56	98TH	12.03	33.73		13.28
30.97	99TH	12.19	34.10	99TH	13.43

(20) BITRAGION SUPNASALE ARC

The surface distance between the right and left tragion landmarks across the subnasale landmark just under the nose is measured with a tape.





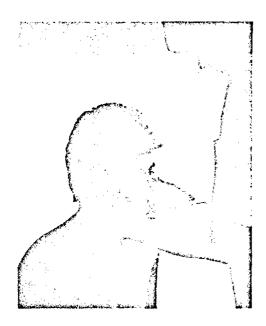
VARIABLE NO. 20-BITRAGION SUBNASALE ARC

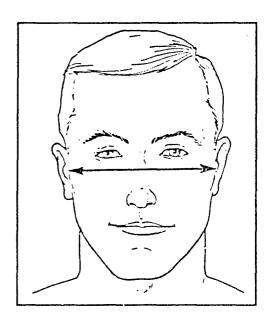
FEMALES

					
THE SUM	MARY STATI	STICS	THE SU	MMARY STATISTI	CS
CENTIMETE		INCHES	CENTIMET		HES
CONTRACTOR OF THE PARTY OF THE		шаш	CITIE	110	رسسه
27.30	MEAN	10.75	29.34	MEAN 11	.55
0.05	SE (MEAN)	0.02	0.04	SE (MEAN) C	0.02
0.99	ST DEV	0.39	0.94	• •	37
0.04	SE(SD)				
0.04	SE(SU)	0.02	0.03	SE(SD) C	0.01
24.70	MINIMUM	9.72	26.50	MINIMUM 10	.43
30.00	MUMIXAM	11.81	31.90	MAXIMUM 12	2.56
	VIDITA COMPONI	0.60		1557107017	
COEFF. OF					3.28
SYMMETRY	VETA I	0.11	SYMMETRY-	VETA I C	18
KURTOSIS	VETA II	2.78	KURTOSIS-	VETA II 2	2.66
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
			_ `\		
T-1	CTATEMENT TO	•		PERSONAL PROPERTY TO CO	
	ERCENTILES			PERCENTILES	
CENTIMETE	RS .	INCHES	CENTIMET	ERS INC	HES
25.16	1ST	9.90	27.34	1ST 10	.76
25.36	2ND	9.99	27.57		.86
25.50	3RD	10.04	27.71		.91
25.70	5TH	10.12	27.90		.98
26.03	10TH	10.25	28.17		.09
26.26	15TH	10.34	28.37		17
26.44	20TH	10.41	28.52	20TH 11	23
26.60	25TH	10.47	28,66	25TH 11	.29
26.75	30TH	10.53	28.80		.34
26.89	35TH	10.59	28.92		.39
27.02	40TH	10.64			
			29.04		43
27.15	45TH	10.69	29.16		48
27.28	50TH	10.74	29.29		53
27.41	55TH	10.79	29.41	557H 11	58
27.54	60TH	10.84	29.54		63
27.67	65TH	10.89	29.68		.69
27.82	70TH	10.95	29.83		
					.74
27.97	75TH	11.01	29.99		81
28.15	HT08	11.08	30.17	80TH 11	88
28.35	85TH	11.16	30.38	85TH 11	96
28.61	90TH	11.26	30.63		.06
28.99	95TH	11.41	30.99		2.20
29.24	97TH	11.51	31.19		.28
29.42	98TH	11.58	31.32		.33
29.72	99TH	11.70	31.47	99TH 12	.39

(21) BIZYGCMATIC EREADIH

The maximum horizontal breadth of the face (between the zygomatic arches) is measured with a spreading caliper.





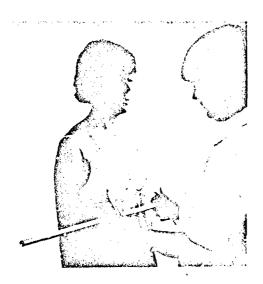
VARIABLE NO. 21-BIZYGOMATIC BREADTH

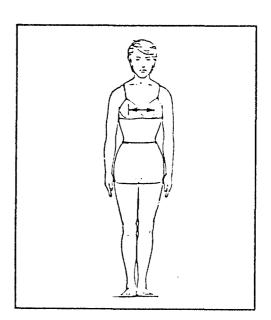
FEMALES

THE SUMMA	RY STATI	STICS	THE SUMMARY STA	TISTICS
CENTIMETERS	3	INCHES	CENTIMETERS	INCHES
13.14	MEAN	5.17	14.18 MEAN	5.58
0.03 8	E (MEAN)	0.01	0.02 SE (MEAN	0.01
	ST DEV	0.20	0.52 ST DEV	•
		0.01	****	
0.02	SE (SD)	0.01	0.02 SE(SD)	0.01
11.70 M		4.61	12.50 MINIMUM	
14.80 M	MUMIXAI	5.83	15.80 MAXIMUN	6.22
COEFF. OF VA	RIATION	3.8%	COEFF. OF VARIATIO	N 3.7%
SYMMETRY		0.24	SYMMETRYVETA	
KURTOSIS		3.36	KURTOSISVETA	
NUMBER OF SU	JEJECTS	334	NUMBER OF SUBJECTS	5 4 87
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	· · · · · · · · · · · · · · · · · · ·		700
	CENTILES		PERCENTII	
CENTIMETERS	3	INCHES	CENTIMETERS	INCHES
12.05	1ST	4.74	12.97 15	5.11
12.17	2ND	4.79	13.13 2NI	5.17
12.25	3RD	4.82	13.23 3RI	5.21
12.36	5TH	4.86	13.35 5TF	
12.52	10TH	4.93	13.53 1019	
	15TH	•		
12.64		4.98		
12.73	20TH	5.01	13.74 20Tf	
12.81	25TH	5.04	13.82 25TF	I 5.14
12.88	30TH	5.07	13.89 30TF	I 5.47
12.94	35TH	5.10	13.96 35TF	I 5.50
13.00	40TH	5.12	14.03 4011	
13.06	45TH	5.14	14.09 4511	
13.12				
	50TH	5.17		
13.19	55TH	5.19	14.22 55TY	
13.25	601H	5.22	14.29 60Ti	
13.31	65TH	5.24	14.36 65TF	I 5.65
13.38	70TH	5.27	14.44 7013	i 5.69
13.46	75TH	5.30	14.52 75TF	f 5.72
13.55	HTOS	5.33	14.62 801	
13.65	85TH	5.37	14.73 8511	
13.79	90TH	5.43	14.87 9011	
14.01	95TH	5.52	15.08 95TF	
14.17	97TH	5.58	<b>15.20</b> 97Ti	
14.29	98TH	5.63	<b>15.29</b> 98TF	£ 6.02
14.50	99TH	5.71	15.41 9911	i 6.07

#### (22) BUSTPOINT/THELICN-BUSTPOINT/THELICN EREADIH

The distance between the right and left bustpoint landmarks on women and the center of the nipples (thelion) on men is measured with a beam caliper. The subject stands erect looking straight ahead. The shoulders and upper extremities are relaxed. The measurement is made at the maximum point of quiet respiration.





VARIABLE NO. 22—BUSTPOINT/THELICN-BUSTPOINT/THELICN EREADIH

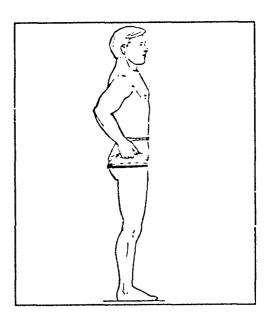
#### FEMALES

THE SUM	MARY STATI	STICS INCHES	THE SUMMARY STATISTIC CENTIMETERS INC	
CLEVILLE	440	THAIR		<u></u>
18.70		7.36		61
0.09	SE (MEAN)	0.04		.03
1.66	ST DEV	0.65	1.72 ST DEV 0.	. 68
0.06	SE(SD)	0.03	0.05 SE(SD) 0.	.02
	(/		• •	
14.50	MUNIMUM	5.71	17.70 MINIMUM 6.	.97
24.10	MUMIXAM	9.49	27.20 MAXIMUM 10.	.71
COEFF. OF	VAPTATTON	8.9%	COEFF. OF VARIATION 7.	.8%
SYMMETRY-		0.09		.18
KURIOSIS-	VETA II	2.81	KURTOSISVETA II 2.	.93
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS 4	187
			•	
F	PERCENTILES	3	PERCENTILES	
CENTIMETE	TRS .	INCHES	CENTIMETERS INC	ŒS
15.18	1ST	5.98	18.10 1ST 7.	.12
15.47	2ND	6.09		27
15.69	3RD	6.18		.37
16.00	5TH	6.30		.51
16.54	10TH	6.51		.74
16.93	15TH	6.67		.91
17.25	201H	6.79		.04
17.53	25TH	6.90		.15
17.79	30TH	7.00		.25
18.03	35TH	7.10	21.19 35TH 8.	34
18.26	40TH	7.19	21.42 40TH 8.	.43
18.48	45TH	7.28		.52
18.70	50TH	7.36		.60
18.92	55TH	7.45		.68
19.14	60TH	7.54		.77
19.37	65TH	7.62		.86
		7.72		
19.60	70TH			.95
19.86	75TH	7.82		.05
20.14	HT08	7.93		.16
20.46	85TH	8.06		.30
20.86	90TH	3.21		.47
21.44	95TH	8.44		.74
21.79	97TH	8.58	25.24 97TH 9.	.94
22.05	98TH	8.68	25.62 98TH 10.	
22.45	99TH	8.84	26.27 99TH 10.	

#### (23) BUTTOCK CIRCUMFERENCE

The horizontal circumference of the trunk at the level of the maximum protrusion of the right buttock is measured with a tape. The subject stands erect with the heels together and the weight equally distributed on both feet.





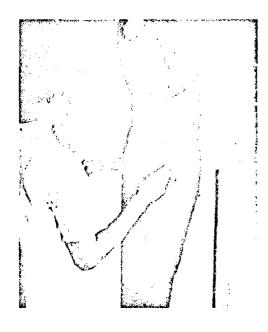
## VARIABLE NO. 23—BUTTOCK CIRCUMFERENCE

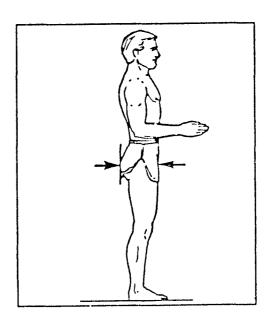
#### FEMALES

		<del></del>	
THE SUMMARY CENTIMETERS	STATISTICS INCHES	THE SU CENTIMET	MMARY STATISFICS ERS INCHES
0.34 SE(N 6.17 ST	EAN 38.94 MEAN) 0.13 DEV 2.43 (SD) 0.09	99.15 0.25 5.49 0.18	SE (MEAN) 0.10 ST DEV 2.16
83.50 MINT 115.10 MAX		84.90 120.00	
COEFF. OF VARIATION OF VARIATION OF SUBJECTION OF SUBJECTI	TA I 0.09 TA II 2.73	SYMMETRY-	
PERCEN CENTIMETERS	VITLES INCHES	CENTIMET	PFRCENTILES ERS INCHES
85.03 86.67 87.68 89.02 91.08 92.48 93.61 94.59 95.49 96.33 97.14 97.94 98.73 99.54 100.36 101.22 102.14 103.14	1ST 33.48 2ND 34.12 3RD 34.52 5TH 35.05 LOTH 35.86 LSTH 36.41 2OTH 36.85 2STH 37.24 3OTH 37.60 3STH 37.93 LOTH 38.25 4STH 38.56 5OTH 38.75 5STH 39.19 5OTH 39.51 5STH 39.85 7OTH 40.21 7STH 40.61	87.13 88.75 89.66 90.80 92.43 93.53 94.41 95.20 95.94 96.64 97.34 98.03 98.74 99.47 100.23 101.04 101.90	1ST 34.30 2ND 34.94 3RD 35.30 5TH 35.75 10TH 36.39 15TH 36.82 20TH 37.17 25TH 37.48 30TH 37.77 35TH 38.05 40TH 38.32 45TH 38.59 50TH 38.87 55TH 39.16 60TH 39.46 65TH 39.78 70TH 40.12 75TH 40.49
104.26 8 105.56 8 107.20 9 109.56 9 111.02 9	301H 41.05 35TH 41.56 90TH 42.21 95TH 43.13 97TH 43.71 98TH 44.11	103.93 105.17 106.70 108.79 109.94 110.63	80TH 40.92 85TH 41.41 90TH 42.01 95TH 42.83 97TH 43.28 98TH 43.56

## (24) BUITOCK DEPTH

The horizontal depth of the torso at the level of the maximum protrusion of the right buttock is measured using a beam caliper with a fixed paddle blade. The subject stands erect with the heels together and the weight distributed equally on both feet.





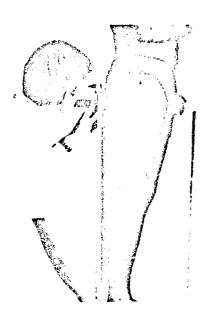
VARIABLE NO. 24—BUITOCK DEPIH

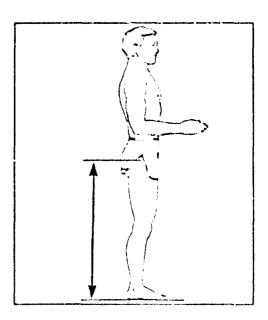
#### FEMALES

THE SUM	Mary Stati	ISTICS INCHES	THE SUMMARY STATES	
WIII 11 11 11 11 11 11 11 11 11 11 11 11	<b></b>	шиш	CENTIFICIENS	INCHES
	MEAN		24.73 MEAN	9.74
	SE (MEAN)	0.05	0.08 SE(MEAN)	0.03
2.32	ST DEV	0.92	1.84 ST DEV	0.72
0.09	SE(SD)	0.04	0.06 SE(SD)	
	. ,		51,05)	0.02
17.00	MINIMIUM		19.80 MINIMUM	7.80
30.40	MUMIXAM	11.97	32.00 MAXIMUM	12.60
COPER OF	I/ADTAMTON	10.00		
COEFF. OF			COEFF. OF VARIATION	
SYMMETRY		0.83	SYMMETRY——VETA I	
KURTOSIS	VEIA II	4.20	KURTOSISVETA II	3.24
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS	487
<del></del>		······································		
7,				
	ERCENTILES		PERCENTILES	
CENTIMET	38	INCHES	CENTIMETERS	INCHES
18.14	1ST	7.14	20.34 1ST	0.03
18.76	2ND	7.39		8.01
19.13	3RD	7.53		8.24
19.58	5TH	7.71		8.38
20.23	10111	7.96	21.75 5111	8.56
20.64	15TH	8.13	22.42 10TH	8.83
20.97	20TH	8.26	22.86 15TH	9.00
21.25	25TH	8.37	23.20 20TH	9.14
21.25			23.50 25111	9.25
		8.47	23.76 30TH	9.36
21.76	35TH	8.57	24.01 35TH	9.45
22.00		8.66	24.24 4011!	9.54
22.25	45TH	8.76	24.47 45TH	9.63
22.50	50TH	8.86	24.69 50TH	9.72
22.76	55TH	8.96	24.92 55TH	2.81
23.04	60TH	9.07	25.15 60TH	9.90
23.35	65TH	9.19	25.40 65TH	10.00
23.69	70TH	9.33	25.66 70111	10.16
24.08	75TH	9.48	25.94 75'IH	10.21
24.55	HT08	9.66	26.26 80III	10.34
25.13	85TH	9.89	26.63 85TH	10.48
25.94	90TH	10.21	27.11 90TH	10.43
27.32	95'TH	10.75	27.82 95TH	10.07
28.32	97TH	11.15	28.27 971H	11.13
29.12	98TH	11.47		
30.49	99TH	12.00		11.26
30.47	2 2 2 2 2	14.00	29.10 99TH	11.46

#### (25) BUTTOCK HEIGHT

The vertical distance between a standing surface and the level of the maximum protrusion of the right buttock is measured with an anthrepereter at the right side of the thigh. The subject stands erect with the heels together and the weight distributed equally on both feet.





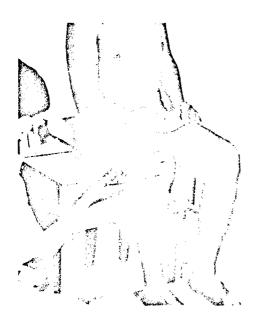
## VARIABLE NO. 25-BUTTOCK HEIGHT

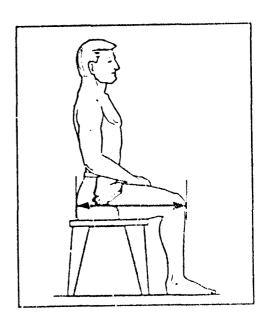
## FEMALES

			<del></del>		
	Mary Stati			MMARY STAT	ISTICS
CENTIMETE	RS	INCHES	CENTIMET	ERS	INCHES
85.71	MFAN	33.74	88.51	MEAN	34.85
0.16	SE (MEAN)	0.06	0.19		0.07
2.95	ST DEV	1.16	4.19		1.65
0.11	SE(SD)	0.04	0.13		0.05
	MINIMUM		78.60	MINIMUM	30.94
₽7.00	MUMIXAM	38.19	100.90	MAXIMUM	39.72
COEFF. OF	VARIATION	3.4%	CEFF. OF	VARIATION	4.7%
SYMMETRY	VETA I	0.63	SYMMETRY-		
KURTOSIS	VETA II	3.63		VETA II	2.86
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
			· · · · · · · · · · · · · · · · · · ·		
	ERCENTILES			PERCENTILE	
CENTIMETE	<b>X</b> S	INCHES	CENTIMET	ERS	INCHES
80.07	ist	31.52	79.88		31.45
80.60	2ND	31.73	80.90		
80.94	3RD	31.86	81.49	3RD	32.08
81.41	5TH	32.05	82.26		
82.18	10TH	32.35	83.41		
82.73	15TH	32.57	84.21	15TH 20TH	33.15
83.19	SOIH	32.75	84.86	20TH	33.41
83.60	25TH	32.91	85.46		33.64
83.98	301H	33.06	86.01	30TH	33.86
84.34	35TH	33.21	86.54	<b>35TH</b>	34.07
84.70	40TH	33.35	87.06	401H	34.28
85.05	45TH	33.49	87.59	45TH	34.48
85.41	50TH	33.63	88.13	50TH	34.70
85.78	55TH	33.77	88.68	551 <b>H</b>	34.91
86.17	60TH	33.92	89.26	60TH	35.14
86.57	65TH	34.08	89.87	65TH	35.38
87.01	70TH	34.26	90.54	70TH	35.64
87.50	75TH	34.45	91.27	75TH	35.93
38.07	HTOS	34.67	92.11	801H	
88.74	85TH	34.94	93.09	85TH	36.65
89.61	901H	35.28	94.33	90111	37.14
90.96	95TH	35.81	96.12	95'IH	
91.85	97TH	36.16	97.19	97 <b>TH</b>	38.26
92.52	98TH	36.43	97.91	98711	38.55
93.58	99TH	36.84	98.90	99TH	38.94

#### (26) BUITOCK-KNEE LENGTH

The horizontal distance between a buttock plate placed at the most posterior point on either buttock and the anterior point to the right knee is measured with an anthropometer. The subject sits erect. The thighs are parallel and the knees flexed 90 degrees with the feet in line with the thighs.





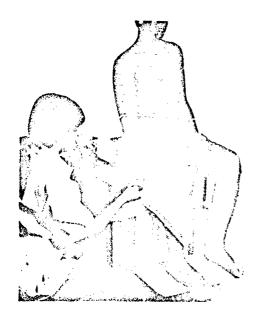
## VARIABLE NO. 26-BUTTOCK-KNEE LENGTH

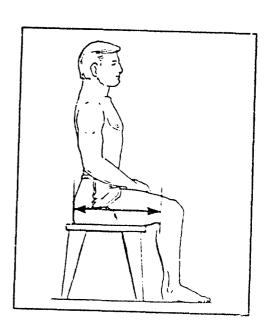
## FEMALES

<del></del>			* ************************************		
	MMARY STATI			MMARY STAT	
CENTIMET	ERS	INCHES	CENTIMET	ers	INCHES
60.02	MEAN	23.63	61.86	MEAN	24.36
	SE (MEAN)	0.04	0.12		
2.08		0.82	2.65		1.04
0.08		0.03	0.08		
	(,		••••	22(02)	0.00
	MINIMUM			MINIMUM	
67.90	MAXIMUM	26.73	70.60	MAXIMUM	27.80
COEFF. OF	VARIATION	3.5%	COEFF. OF	VARIATION	4.3%
SYMMETRY-	VETA I	0.22	SYMMETRY-		
	VETA II	2.75			2.88
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
		<del></del>		·· ···	
1	PERCENTILES	;	1	PERCENTILES	3
CENTIMETI		INCHES	CENTIMET		INCHES
		23.02123	CLIVIIII		шчш
55.90	1ST	22.01	56.09	1ST	22.08
56.24		22.14	56.82	2ND	22.37
56.47	3PD	22.23	57.24	3RD	22.54
56.80	5TH	22.23	57.79	5TH	
57.36	10TH	22.58	58.60	10TH	
57.77	15TH	22.75	59.15	15TH	
58.13	20TH	22.89	59.59	20TH	23.46
58.46	25TH	23.01	59.98		
58.76		23.13	60.34	30114	23.61 23.76
59.06	35TH	23.25	£0.68	35TH	
59.34	40TH	23.36	61.02		
59.63	45TH	23.48	61.35		24.02
59.91	50TH	23.59	61.69		
60.21	55TH	23.70		2011	24.29 24.42
			62.03		
60.51	60IH	23.82	62.39	601H	24.56
60.82		23.95	62.77	65'TH	
61.15	70TH	24.08	63.17	701H	
61.51	75'IH	24.22	63.62	751H	
61.91	HT08	24.37	64.13	HI08	
62.35	85TH	24.55	64.72	851H	25.48
62.88	90TH	24.76	65.46	90TH	25.77
63.57	95TH	25.03	66.52	95TH	
63.92	97TH	25.17	67.15	97TH	26.44
64.13	9ETH	25.25	67.58	98TH	
64.32	9 <i>)</i> TH	25.32	68.16	99TH	26.84

## (27) BUITOCK-POPLITEAL LENGTH

The horizontal distance between a buttock plate placed at the most posterior point creither buttock and the back of the right knee (the popliteal fossart the dorsal juncture of the calf and thigh) is measured with an anthropor ster. The subject sits erect. The thighs are parallel and the knee flered 90 degrees with the feet in line with the thighs.





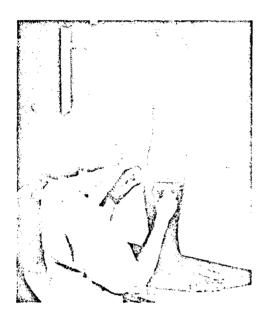
## VARIABLE NO. 27—BUTTOCK-POPLITEAL LENGTH

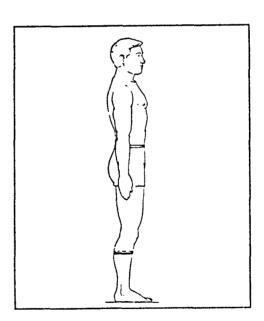
## FEMALES

THE SUM	Mary Stati	ISTICS	THE SUMMARY S	PATISTICS
CENTIMETE	RS	INCHES	CENTIMETERS	INCHES
49.22	MEAN	19.33	50.26 MEA	N 19.79
0.10	SE (MEAN)	0.04	0.11 SE(ME	
	ST DEV	0.73	2.47 ST D	EV 0.97
0.07	SE(SD)		0.08 SE(SI	
	02(00)	0.05	0.00 51(3)	<i>J</i> ) 0.03
44.50	MINIMUM	17.52	44.40 MINIM	JM 17.48
	MAXIMUM		57.70 MAXIM	
	12221011	21.05	57.70 IMALIN	Jr1 22.12
COEFF. OF	VARTATION	3.7%	COEFF. OF VARIAT	TON 1 09
SYMMETRY-		0.13	SYMMETRY——VETA	I 0.37
KURTOSIS		2.67	KURIOSIS——VETA	II 2.91
10143010	AT1711 TT	2.07	WKI@ISVEIA	11 2.91
NUMBER OF	STIRTEMPS	334	NUMBER OF SUBJECT	DC 407
TOTAL OF	DOWLETO	224	NONDER OF SOBJEC.	15 487
*****				<del></del>
p	ERCENTILES	3	PERCENT	ft re
CENTIMETE		INCHES	CENTIMETERS	
		سسسس	CCATAING (ERS	INCHES
45.15	1ST	17,77	45.25	ST 17.81
45.63	2ND	17.97		VD 18.02
45.92	3RD	18.08		ND 18.15
46.30	5TH	18.23		TH 18.32
46.88	10TH	18.46		TH 18.59
47.28	15TH	18.61		
47.60	20TH	18.74		TH 18.78 TH 18.93
47.89	25TH	18.85		
48.15	30TH			TH 19.08
		18.96		H 19.21
48.41	35TH	19.06		TH 19.33
48.65	40TH	19.15		TH 19.46
48.89	45TH	19.25	49.73 457	TH 19.58
49.14	50TH	19.35	50.05 507	TH 19.71
49.39	55TH	19.44	50.38 557	TH 19.83
49.65	60TH	19.55	50.72 607	TH 19.97
491	65TH	19.65	51.08 657	
50.20	70TH	19.76	51.46 701	
50.51	75TH	19.88	51.89 751	
50.85	HT08	20.02	52.37 801	
51.25	85TH	20.18	52.93 851	
51.72	90TH	20.36	53,65 901	
52.36	95TH	20.62		
52.71	971H	20.75		
52.92	98TH	20.75	55.33 971	
53.15			55.77 981	
53.15	99TH	20.93	56.39 991	H 22.20

## (28) CALF CIRCUMFERENCE

The maximum horizontal circumference of the right calf is measured with a tape. The subject stands erect with the heels approximately 10 cm apart and the weight distributed equally on both feet.





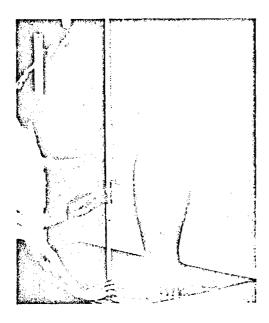
## VARIABLE NO. 28—CALF CIRCUMFERENCE

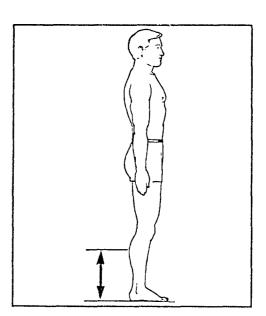
## FEMALES

35.88 MEAN 14.13 37.77 MEAN 0.13 SE (MEAN) 0.05 0.10 SE (MEAN) 2.39 ST DEV 0.94 2.26 ST DEV 0.09 SE (SD) 0.04 0.07 SE (SD)  29.80 MINIMUM 11.73 30.00 MINIMUM 45.90 MAXIMUM 18.07 44.80 MANIMUM  COEFF. OF VARIATION 6.6% COEFF. OF VARIATION SYMMETRY—VETA I 0.14 SYMMETRY—VETA I KURTOSIS—VETA II 3.30 KURTOSIS—VETA II  NUMBER OF SUBJECTS 334 NUMBER OF SUBJECTS  PERCENTILES CENTIMETERS INCHES CENTIMETERS II  30.72 1ST 12.09 32.96 1ST 31.15 2ND 12.27 33.48 2ND 31.47 3RD 12.39 33.81 3RD 31.95 5TH 12.58 34.25 5TH 32.77 10TH 12.90 34.95 10TH 33.35 15TH 13.13 35.43 15TH 33.83 20TH 13.32 35.82 20TH 34.24 25TH 13.48 36.17 2STH 34.62 30TH 13.63 36.49 30TH 34.96 35TH 13.77 36.79 35TH	ITCS NCHES 14.87 0.04 0.89 0.03
CENTIMETERS   INCHES   CENTIMETERS   INCHES     35.88	NCHES 14.87 0.04 0.89
35.88 MEAN 14.13 37.77 MEAN 0.13 SE (MEAN) 0.05 0.10 SE (MEAN) 2.39 ST DEV 0.94 2.26 ST DEV 0.09 SE (SD) 0.04 0.07 SE (SD)  29.80 MINIMUM 11.73 30.00 MINIMUM 45.90 MAXIMUM 18.07 44.80 MANIMUM  COEFF. OF VARIATION 6.6% CULTF. OF VARIATION SYMMETRY—VETA I 0.14 SYMMETRY—VETA I KURTOSIS—VETA II 3.30 KURTOSIS—VETA II  NUMBER OF SUBJECTS 334 NUMBER OF SUBJECTS  PERCENTILES CENTIMETERS INCHES CENTIMETERS II  30.72 1ST 12.09 32.96 1ST 31.15 2ND 12.27 33.48 2ND 31.47 3RD 12.39 33.81 3RD 31.95 5TH 12.58 34.25 5TH 32.77 10TH 12.90 34.95 10TH 33.35 15TH 13.13 35.43 15TH 33.83 20TH 13.32 35.82 20TH 33.83 20TH 13.32 35.82 20TH 34.62 30TH 13.63 36.49 30TH 34.96 35TH 13.77 36.79 35TH	14.87 0.04 0.89
0.13 SE (MEAN) 0.05 2.39 ST DEV 0.94 2.26 ST DEV 0.09 SE(SD) 0.04 2.26 ST DEV 0.07 SE(SD)  29.80 MINIMUM 11.73 30.00 MINIMUM 45.90 MAXIMUM 18.07  COEFF. OF VARIATION 6.6% SYMMETRY—VETA I 0.14 KURTOSIS—VETA II 3.30  NUMBER OF SUBJECTS 334  NUMBER OF SUBJECTS  PERCENTILES CENTIMETERS INCHES  PERCENTILES TOTAL 30.72 1ST 12.09 32.96 1ST 31.15 2ND 12.27 33.48 2ND 31.47 3RD 12.39 31.47 3RD 12.39 31.47 3RD 12.39 31.47 3RD 12.39 31.49 33.81 3RD 31.95 5TH 12.58 32.77 10TH 12.90 34.95 10TH 33.35 15TH 13.13 35.43 15TH 33.83 20TH 13.23 35.82 20TH 34.24 25TH 13.48 36.17 25TH 34.62 30TH 13.63 36.49 30TH 34.96 35TH 13.77 36.79 35TH	0.04 0.89
0.13 SE (MEAN) 0.05 2.39 ST DEV 0.94 2.26 ST DEV 0.09 SE(SD) 0.04 2.26 ST DEV 0.07 SE(SD)  29.80 MINIMUM 11.73 30.00 MINIMUM 45.90 MAXIMUM 18.07  COEFF. OF VARIATION 6.6% SYMMETRY—VETA I 0.14 KURTOSIS—VETA II 3.30  NUMBER OF SUBJECTS 334  NUMBER OF SUBJECTS  PERCENTILES CENTIMETERS INCHES  PERCENTILES TOTAL 30.72 1ST 12.09 32.96 1ST 31.15 2ND 12.27 33.48 2ND 31.47 3RD 12.39 31.47 3RD 12.39 31.47 3RD 12.39 31.47 3RD 12.39 31.49 33.81 3RD 31.95 5TH 12.58 32.77 10TH 12.90 34.95 10TH 33.35 15TH 13.13 35.43 15TH 33.83 20TH 13.23 35.82 20TH 34.24 25TH 13.48 36.17 25TH 34.62 30TH 13.63 36.49 30TH 34.96 35TH 13.77 36.79 35TH	0.04 0.89
2.39 ST DEV 0.94 0.09 SE(SD) 0.04 0.07 SE(SD)  29.80 MINIMUM 11.73 45.90 MAXIMUM 18.07  COEFF. OF VARIATION 6.6% SYMMETRY—VETA I 0.14 KURTOSIS—VETA II 3.30  NUMBER OF SUBJECTS 334  PERCENTILES CENTIMETERS INCHES  30.72 1ST 12.09 32.96 1ST CENTIMETERS INCHES  PERCENTILES CENTIMETERS INCHES	0.89
0.09       SE(SD)       0.04       0.07       SE(SD)         29.80       MINIMUM       11.73       30.00       MINIMUM         45.90       MAXIMUM       18.07       44.80       MANIMUM         COEFF. OF VARIATION       6.6%       CULTF. OF VARIATION         SYMMETRY—VETA I       0.14       SYMMETRY—VETA I         KURIOSIS—VETA II       NUMBER OF SUBJECTS         PERCENTILES         CENTIMETERS       INCHES         CENTIMETERS       INCHES         CENTIMETERS       ID         30.72       1ST       12.09       32.96       1ST         31.15       2ND       12.27       33.48       2ND         31.47       3RD       12.39       33.81       3RD         31.95       5TH       12.58       34.25       5TH         32.77       10TH       12.90       34.95       10TH         33.83       20TH       13.32       35.82       20TH         34.24       25TH       13.48       36.17       25TH         34.62       30TH       13.63       36.49       30TH         34.96       35TH       13.77       36.79	
29.80 MINIMUM 11.73 30.00 MINIMUM 45.90 MAXIMUM 18.07 44.80 MANIMUM  COEFF. OF VARIATION 6.6% COEFF. OF VARIATION SYMMETRY—VETA I 0.14 SYMMETRY—VETA I KURTOSIS—VETA II 3.30 KURTOSIS—VETA II  NUMBER OF SUBJECTS 334 NUMBER OF SUBJECTS  PERCENTILES  CENTIMETERS INCHES  TOTAL SYMMETRY—VETA II  NUMBER OF SUBJECTS 334 NUMBER OF SUBJECTS  PERCENTILES  CENTIMETERS INCHES  TOTAL SYMMETRY—VETA II  NUMBER OF SUBJECTS  ANALYSIS SUBJECTS  PERCENTILES  CENTIMETERS II  30.72 1ST 12.09 32.96 1ST  31.15 2ND 12.27 33.48 2ND  31.47 3RD 12.39 33.81 3RD  31.95 5TH 12.58 34.25 5TH  32.77 10TH 12.90 34.95 10TH  33.35 15TH 13.13 35.43 15TH  33.83 20TH 13.32 35.82 20TH  34.24 25TH 13.48 36.17 25TH  34.62 30TH 13.63 36.49 30TH  34.96 35TH 13.77 36.79 35TH	0.03
45.90 MAXIMUM 18.07  COEFF. OF VARIATION 6.6% SYMMETRY—VETA I 0.14 KURTOSIS—VETA II 3.30  NUMBER OF SUBJECTS  PERCENTILES CENTIMETERS INCHES  PERCENTILES CENTIMETERS INCHES  TOTAL SYMMETRY—VETA II  NUMBER OF SUBJECTS  PERCENTILES CENTIMETERS INCHES  TOTAL SYMMETRY—VETA II  NUMBER OF SUBJECTS  PERCENTILES CENTIMETERS INCHES  TOTAL SYMMETRY—VETA II  NUMBER OF SUBJECTS  PERCENTILES CENTIMETERS INCHES  TOTAL SYMMETRY—VETA II  SUBJECTS  PERCENTILES CENTIMETERS INCHES  TOTAL SYMMETRY—VETA II  SUBJECTS  PERCENTILES CENTIMETERS INCHES  TOTAL SYMMETRY—VETA II  SYMMETRY—VETA II  NUMBER OF VARIATION  SYMMETRY—VETA II  NUMBER OF SUBJECTS  PERCENTILES CENTIMETERS INCHES  TOTAL SYMMETRY—VETA II  SUBJECTS  PERCENTILES  TOTAL SYMMETRY—VETA II  SYMMETRY—VETA II  NUMBER OF SUBJECTS  PERCENTILES  TOTAL SYMMETRY—VETA II  SYMMETRY—VETA II  NUMBER OF SUBJECTS  TOTAL SYMMETRY—VETA II  SYMMETRY—VETA II  NUMBER OF VARIATION  SYMMETRY—VETA II  NUMBER OF SUBJECTS  PERCENTILES  TOTAL SYMMETRY—VETA II  SYMMETRY—VETA II  NUMBER OF VARIATION  SYMMETRY  SYMMETRY—VETA II  NUMBER OF VARIATION  SYMMETRY—VETA II  NUMBER OF VARIA	0.03
45.90 MAXIMUM 18.07  COEFF. OF VARIATION 6.6% SYMMETRY—VETA I 0.14 KURTOSIS—VETA II 3.30  NUMBER OF SUBJECTS  PERCENTILES CENTIMETERS INCHES  PERCENTILES CENTIMETERS INCHES  TOTAL SYMMETRY—VETA II  NUMBER OF SUBJECTS  PERCENTILES CENTIMETERS INCHES  TOTAL SYMMETRY—VETA II  NUMBER OF SUBJECTS  PERCENTILES CENTIMETERS INCHES  TOTAL SYMMETRY—VETA II  NUMBER OF SUBJECTS  PERCENTILES CENTIMETERS INCHES  TOTAL SYMMETRY—VETA II  SUBJECTS  PERCENTILES CENTIMETERS INCHES  TOTAL SYMMETRY—VETA II  SUBJECTS  PERCENTILES CENTIMETERS INCHES  TOTAL SYMMETRY—VETA II  SYMMETRY—VETA II  NUMBER OF VARIATION  SYMMETRY—VETA II  NUMBER OF SUBJECTS  PERCENTILES CENTIMETERS INCHES  TOTAL SYMMETRY—VETA II  SUBJECTS  PERCENTILES  TOTAL SYMMETRY—VETA II  SYMMETRY—VETA II  NUMBER OF SUBJECTS  PERCENTILES  TOTAL SYMMETRY—VETA II  SYMMETRY—VETA II  NUMBER OF SUBJECTS  TOTAL SYMMETRY—VETA II  SYMMETRY—VETA II  NUMBER OF VARIATION  SYMMETRY—VETA II  NUMBER OF SUBJECTS  PERCENTILES  TOTAL SYMMETRY—VETA II  SYMMETRY—VETA II  NUMBER OF VARIATION  SYMMETRY  SYMMETRY—VETA II  NUMBER OF VARIATION  SYMMETRY—VETA II  NUMBER OF VARIA	11.81
SYMMETRY—VETA I         0.14         SYMMETRY—VETA I         I           KURTOSIS—VETA II         3.30         KURTOSIS—VETA II           NUMBER OF SUBJECTS         334         NUMBER OF SUBJECTS           PERCENTILES           CENTIMETERS         INCHES         CENTIMETERS         II           30.72         1ST         12.09         32.96         1ST           31.15         2ND         12.27         33.48         2ND           31.47         3RD         12.39         33.81         3RD           31.95         5TH         12.58         34.25         5TH           32.77         10TH         12.90         34.95         10TH           33.35         15TH         13.13         35.43         15TH           33.83         20TH         13.32         35.82         20TH           34.24         25TH         13.48         36.17         25TH           34.62         30TH         13.63         36.49         30TH           34.96         35TH         13.77         36.79         35TH	17.64
SYMMETRY—VETA I         0.14         SYMMETRY—VETA I         KURTOSIS—VETA II           NUMBER OF SUBJECTS         334         NUMBER OF SUBJECTS           PERCENTILES           CENTIMETERS         INCHES         CENTIMETERS         II           30.72         1ST         12.09         32.96         1ST           31.15         2ND         12.27         33.48         2ND           31.47         3RD         12.39         33.81         3RD           31.95         5TH         12.58         34.25         5TH           32.77         10TH         12.90         34.95         1CTH           33.35         15TH         13.13         35.43         15TH           33.83         20TH         13.32         35.82         20TH           34.24         25TH         13.48         36.17         25TH           34.96         35TH         13.77         36.79         35TH	c 08
NUMBER OF SUBJECTS   334   NUMBER OF SUBJECTS	6.0%
PERCENTILES         PERCENTILES           CENTIMETERS         INCHES           30.72         1ST           31.15         2ND           31.47         3RD           31.95         5TH           32.77         10TH           33.35         15TH           33.83         20TH           33.83         20TH           34.24         25TH           34.62         30TH           35.43         35TH           36.79         35TH	0.16
PERCENTILES         PERCENTILES           CENTIMETERS         INCHES         CENTIMETERS         I           30.72         1ST         12.09         32.96         1ST           31.15         2ND         12.27         33.48         2ND           31.47         3RD         12.39         33.81         3RD           31.95         5TH         12.58         34.25         5TH           32.77         10TH         12.90         34.95         10TH           33.35         15TH         13.13         35.43         15TH           33.83         20TH         13.32         35.82         20TH           34.24         25TH         13.48         36.17         25TH           34.62         30TH         13.63         36.49         30TH           34.96         35TH         13.77         36.79         35TH	2.94
CENTIMETERS         INCHES         CENTIMETERS         II           30.72         1ST         12.09         32.96         1ST           31.15         2ND         12.27         33.48         2ND           31.47         3RD         12.39         33.81         3RD           31.95         5TH         12.58         34.25         5TH           32.77         10TH         12.90         34.95         10TH           33.35         15TH         13.13         35.43         15TH           33.83         20TH         13.32         35.82         20TH           34.24         25TH         13.48         36.17         25TH           34.62         30TH         13.63         36.49         30TH           34.96         35TH         13.77         36.79         35TH	487
CENTIMETERS         INCHES         CENTIMETERS         II           30.72         1ST         12.09         32.96         1ST           31.15         2ND         12.27         33.48         2ND           31.47         3RD         12.39         33.81         3RD           31.95         5TH         12.58         34.25         5TH           32.77         10TH         12.90         34.95         10TH           33.35         15TH         13.13         35.43         15TH           33.83         20TH         13.32         35.82         20TH           34.24         25TH         13.48         36.17         25TH           34.62         30TH         13.63         36.49         30TH           34.96         35TH         13.77         36.79         35TH	
30.72 1ST 12.09 32.96 1ST 31.15 2ND 12.27 33.48 2ND 31.47 3RD 12.39 33.81 3RD 31.95 5TH 12.58 34.25 5TH 32.77 10TH 12.90 34.95 10TH 33.35 15TH 13.13 35.43 15TH 33.83 20TH 13.32 35.82 20TH 34.24 25TH 13.48 36.17 25TH 34.62 30TH 13.63 36.49 30TH 34.96 35TH 13.77 36.79 35TH	
31.15       2ND       12.27       33.48       2ND         31.47       3RD       12.39       33.81       3RD         31.95       5TH       12.58       34.25       5TH         32.77       10TH       12.90       34.95       10TH         33.35       15TH       13.13       35.43       15TH         33.83       20TH       13.32       35.82       20TH         34.24       25TH       13.48       36.17       25TH         34.62       30TH       13.63       36.49       30TH         34.96       35TH       13.77       36.79       35TH	NCHES
31.15       2ND       12.27       33.48       2ND         31.47       3RD       12.39       33.81       3RD         31.95       5TH       12.58       34.25       5TH         32.77       10TH       12.90       34.95       10TH         33.35       15TH       13.13       35.43       15TH         33.83       20TH       13.32       35.82       20TH         34.24       25TH       13.48       36.17       25TH         34.62       30TH       13.63       36.49       30TH         34.96       35TH       13.77       36.79       35TH	10.00
31.47 3RD 12.39 33.81 3RD 31.95 5TH 12.58 34.25 5TH 32.77 10TH 12.90 34.95 10TH 33.35 15TH 13.13 35.43 15TH 33.83 20TH 13.32 35.82 20TH 34.24 25TH 13.48 36.17 25TH 34.62 30TH 13.63 36.49 30TH 34.96 35TH 13.77 36.79 35TH	12.98
31.95 5TH 12.58 34.25 5TH 32.77 10TH 12.90 34.95 10TH 33.35 15TH 13.13 35.43 15TH 33.83 20TH 13.32 35.82 20TH 34.24 25TH 13.48 36.17 25TH 34.62 30TH 13.63 36.49 30TH 34.96 35TH 13.77 36.79 35TH	13.18
32.77 10TH 12.90 34.95 10TH 33.35 15TH 13.13 35.43 15TH 33.83 20TH 13.32 35.82 20TH 34.24 25TH 13.48 36.17 25TH 34.62 30TH 13.63 36.49 30TH 34.96 35TH 13.77 36.79 35TH	13.31
33.35 15TH 13.13 35.43 15TH 33.83 20TH 13.32 35.82 20TH 34.24 25TH 13.48 36.17 25TH 34.62 30TH 13.63 36.49 30TH 34.96 35TH 13.77 36.79 35TH	13.48
33.83       20TH       13.32       35.82       20TH         34.24       25TH       13.48       36.17       25TH         34.62       30TH       13.63       36.49       30TH         34.96       35TH       13.77       36.79       35TH	13.76
34.24       25TH       13.48       36.17       25TH         34.62       30TH       13.63       36.49       30TH         34.96       35TH       13.77       36.79       35TH	13.95
34.62       30TH       13.63       36.49       30TH         34.96       35TH       13.77       36.79       35TH	14.10
34.62       30TH       13.63       36.49       30TH         34.96       35TH       13.77       36.79       35TH	14.24
34.96 35TH 13.77 36.79 35TH	14.37
	14.48
33.23 37.00 37.00 30.11	14.60
35.61 45TH 14.02 37.37 45TH	14.71
	14.83
**************************************	14.94
	15.06
36.85 65TH 14.51 38.58 65TH	15.19
37.18 70TH 14.64 38.91 70TH	15.32
37.53 75TH 14.78 39.28 75TH	15.47
	15.63
	15.82
	16.06
	16.06 16.41
40.50 98TH 15.95 42.59 98TH	16.06 16.41 16.62
	16.06 16.41

#### (29) CALF HEIGHT

The vertical distance between a standing surface and the level of the maximum circumference of the right calf is measured with an anthropometer. The subject stands erect with the heels together and the weight distributed equally on both feet.





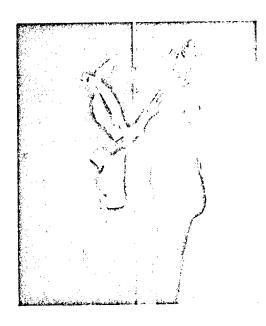
## VARIABLE NO. 29—CALF HEIGHT

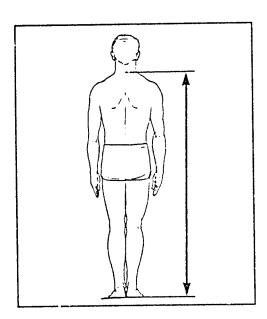
#### FEMALES

THE SUMMARY STATISTICS		THE SUM	MARY STATE	ISTICS	
CENTIMETE	RS	INCHES	CENTIMET	TRS .	INCHES
31.99		12.59	35.15	MEAN	13.84
	SE (MEAN)	0.04	0.09	SE (MEAN)	0.03
1.78	ST DEV	0.70	1.93	ST DEV	0.76
0.07	SE(SD)	0.03	0.06	SE(SD)	0.02
	• •				• • • •
27.60	MUNIMUM	10.87	30.80	MINIMUM	12.13
38.90	MAXIMUM	15.31	40.80		16.06
COEFF. OF	VARIATION	5.6%	COEFF. OF	VARIATION	5.5%
SYMMETRY	-VETA I	0.52	SYMMETRY—	VETA I	0.17
KURIOSIS-	VETA II	3.54	KURTOSIS-		2.77
			•		
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
P	ERCENTILES	5	I	PERCENTILES	3
CENTIMETE	RS	INCHES	CENTIMETE	rs	INCHES
28.36	1ST	11.16	30.90	1ST	12.17
28.76	2ND	11.32	31.33	2ND	12.33
29.01	3RD	11.42	31.61	3RD	12.45
29.34	5TH	11.55	32.01	5TH	12.60
29.85	10TH	11.75	32.65	10TH	12.86
30.20	15TH	11.89	33.10	15TH	
30.48	20TH	12.00	33.46	20TH	13.17
30.73	25TH	12.10	33.78	25TH	
30.96	30TH	12.19	34.07	30TH	13.41
31.18	35TH	12.28	34.34	35TH	13.52
31.39	40TH	12.36	34.60	401H	13.62
31.60	45TH	12.44	34.85	45TH	13.72
31.82	50TH	12.53	35.10	50TH	13.72
32.04	55TH	12.61	35.35	55TH	13.92
32.26	60TH	12.70	35.61	60TH	14.02
32.50	65TH	12.80	35.87	65TH	
32.77	70TH	12.90	36.15		14.12
33.06	75TH	13.01		70TH	14.23
33.39	80TH		36.46	75TH	14.35
33.79	85TH	13.15	36.80	80TH	14.49
34.31		13.30	37.20	6 7 <b>TH</b>	14.64
	90TH	13.51	37.70	90TH	14.84
35.11	95TH	13.82	38.43	95TH	15.13
35.64	97TH	1.4.03	38.90	97 <b>1</b> H	15.32
36.03	98TH	14.19	39.24	93TH	15.45
36.65	99TH	14.43	39.77	99TH	15.66
				•	

## (30) CERVICALE HEIGHT

The vertical distance between a standing surface and the cervicale landmark on the spine at the base of the neck is measured with an anthropometer. The heels are together with the weight distributed equally on both feet. The shoulders and upper extremities are relaxed. The measurement is taken at the maximum point of quiet respiration.





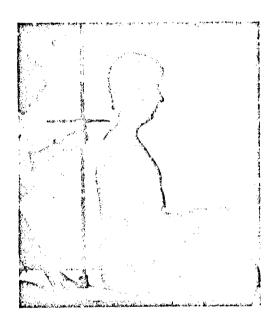
## VARIABLE NO. 30—CERVICALE HEIGHT

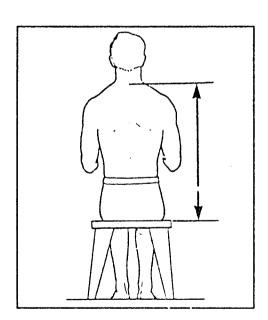
## FFMALES

<del></del>			<del>-</del>		
THE SUMMARY STATISTICS		THE SU	mmary stati	STICS	
CENTIMETE	RS	INCHES	CENTIMET	ERS	INCHES
145.33	MEAN	57.22	153.18	MEAN	60.31
0.23	SE (MEAN)	0.09	0.27	SE (MEAN)	0.11
4.19	ST DEV	1.65	6.00	ST DEV	2.36
0.16	SE(SD)	0.06	0.19	SE(SD)	0.08
	• •			,	
135.50	MINIMIM	53.35	135.30	MINIMUM	53.27
164.30	MAXIMUM	64.69	169.40		66.69
			207111		
COEFF. OF	VARTATTON	2.9%	COEFF. OF	VARIATION	3.9%
SYMMETRY		0.53	SYMMETRY-		-0.01
KURTOSIS		3.86		VETA II	2.79
1010010	ALTER 11	3.00	16/16015	ALTW II	2.13
NUMBER OF	CIBIECIC	334	MITIMOTO OF	SUBJECTS	487
NODELL OF	OODICI	224	NOPIDEAL OF	SOMECIS	407
					<del></del>
17	ERCENTILES	•		PERCENTILES	•
CENTIMETE		INCHES			
CENTIMETE	143	тиспер	CENTIMET	C.CO	INCHES
136.29	1ST	53.66	120.27	3 CM	54 07
			139.37	1ST	54.87
137.43	2ND	54.11	141.02	2ND	55.52
138.10	3RD	54.37	142.04	3RD	55.92
138.98	5TH	54.72	143.42	5TH	56.46
140.27	10TH	55.23	145.51		57.29
141.14	15TH	55.57	146.93		57.85
141.83	20TH	55.84	148.06		58.29
142.43	25TH	56.08	149.05		58.68
142.99	30IH	56.29	149.94		59.03
143.51	35TH	56.50	150.77	35TH	59.35
144.01	40TH	56.70	151.57	40TH	59.67
144.51	45TH	56.89	152.34	45TH	59.98
145.02	50TH	57.09	153.12	50TH	60.28
145.54	55TH	57.30	153.89	55TH	60.59
146.07	60TH	57.51	154.68	ботн	63.90
146.64	65TH	57.73	155.51	65TH	61.22
147.25	70TH	57.97	156.37	70TH	61.56
147.92	75TH	58.24	157.32	75TH	61.94
148.70	80TH	58.54	158.37	80TH	62.35
149.61	85TH	58.90	159.57	85TH	62.82
150.79	90TH	59.37	161.07		
152.57	901A 95TH	60.07		90TH	63.41
			163.20	95TH	64.25
153.72	97TH	60.52	164.50	97TH	64.76
154.55	98TH	60.85	165.39		65.11
155.82	99TH	61.34	166.67	99TH	65.62

#### (31) CERVICALE HEIGHT, SITTING

The vertical distance between a sitting surface and the cervicale landmark on the spine at the base of the neck is measured with an anthropometer. The subject sits erect looking straight ahead. The shoulders and upper arms are relaxed and the forearms and hands are extended forward horizontally with the palms facing each other. The thighs are parallel and the knees are flexed 90 degrees. The measurement is taken at the maximum point of quiet respiration.





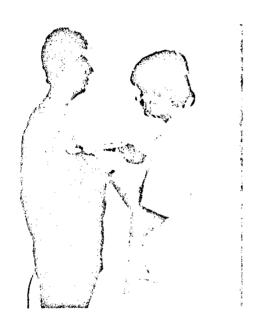
VARIABLE NO. 31—CERVICALE HEIGHT, SITTING

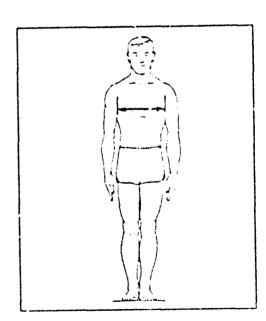
## FEMALES

THE SUMMARY ST	IATISTICS INCHES	THE SUMMA	RY STATISTICS INCHES	
65.45 MEAI 0.13 SE(MEI 2.46 ST DI 0.10 SE(SI	AN) 0.05 EV 0.97	2.80	MEAN 27.12 E (MEAN) 0.05 ST DEV 1.10 SE (SD) 0.04	
58.60 MINIM 74.10 MAXIM			INIMIM 23.23 IAXIMIM 30.12	
COEFF. OF VARIATE SYMMETRY—VETA KURTOSIS—VETA NUMBER OF SUBJECT	I 0.04 II 2.99			
PERCENT			RCENTILES S INCHES	
60.42 21 60.86 31 61.44 57 62.31 107 62.90 157 63.36 207 63.77 257 64.13 307 64.47 357 64.80 407 65.11 457 65.43 507 65.75 557 66.07 607 66.41 657 66.76 707 67.15 75 67.57 807 68.06 857 68.06 857 68.66 907 69.49 957	IH 24.95 IH 25.11 IH 25.25 IH 25.38 IH 25.51 IH 25.64 IH 25.76 IH 25.89 IH 26.01 IH 26.14 IH 26.28 IH 26.60 IH 26.79	62.15 63.02 63.56 64.28 65.36 66.07 66.62 67.09 67.51 67.90 68.26 68.61 68.95 69.29 70.36 70.76 71.20 71.72 72.36 73.32 73.93 74.39	1ST 24.47 2ND 24.81 3RD 25.02 5TH 25.31 10TH 25.73 15TH 26.01 2C.H 26.23 25TH 26.41 30TH 26.58 35TH 26.73 40TH 26.87 45TH 27.01 50TH 27.15 55TH 27.28 60TH 27.15 55TH 27.28 60TH 27.41 65TH 27.55 70TH 27.70 75TH 27.86 80TH 28.03 85TH 28.03 85TH 28.23 90TH 28.49 95TH 28.87 97TH 29.11 98TH 29.29	

#### (32) CHEST EREADIH

The maximum horizontal breadth of the chest at the level of the right bustpoint on women or the nipple on men is measured with a beam caliper. The subject stands erect looking straight ahead with the heels together, the weight distributed equally on both feet. The measurement is taken at the maximum point of quiet respiration. <u>Note</u>: Breast tissue and latissimus dorsi muscle tissue are not included in this measurement if they extend beyond the rib cage.





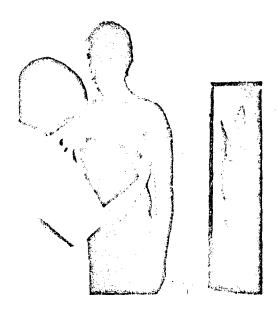
## VARIABLE NO. 32—CHEST EXEADIH

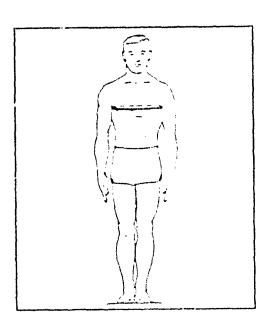
## FEMALES

Comp. Comp.					
HE SUMMARY STATI				THE SUMMARY STATI	
CENTIMETER	8	INCHES	CENTIMET	PS .	INCHES
28.82	MEAN	11.35	22.10	3/5334	12 07
	SE (MEAN)		33.19	MEAN SE (MEAN)	13.07
0.08	ST DEV SE(SD)	0.79	2.19	ST DEV	
0.00	3E(3U)	0.03	0.07	SE(SD)	0.03
	MINIMUM	8.86	26.00	MUNIMUM	10.24
37.50	MAXIMUM	14.76	39.80	MAXIMUM	15.67
COEFF. OF V	73.73.7° 3.777.244.7	7 00			
			COEFF. OF		
SYMMETRY			SYMMETRY—		0.16
KURIOSIS	-VETA II	4.07	KURTOSIS	VETA II	2.83
NUMBER OF S	UBJECTS	334	NUMBER OF	SUBJECTS	487
TYE	TO THE TOTAL TOTAL	•			
	RCENTILES			PERCENTILES	
CENTIMETER	<b>S</b>	INCHES	CENTIMETE	rs	INCHES
24.78	1ST	9.75	28.53	ısı	11.23
25.13	2ND		28.99	2ND	
25.38	300	0.00	29.29	3RD	
25.74	57H	10.13	29.72	57H	
26.34	10TH	10.37	30.41		
26.76	15TH		30.90	10TH 15TH	12.17
27.11	20111	10.67	31.30		
27.42	25TH		31.65	201H 25TH	12.46
27.71	30TH	10.91	31.96	30TH	
27.97	35TH	11.01	32.26		
28.22	40TH	11.11		35TH	12.70
28.47	45TH	11.21	32.55	40TH	12.81
28.72	50TH	11.31	32.83	45111	12.92
28.97	55TH	11.40	33.11	50111	13.03
29.22			33.39	55TH	
	601H	11.50	33.68	eoth	13.26
29.49	65TH	11.61	33.98	657H	13.38
29.77	70TH	11.72	34.29	701H	13.50
30.08	75TH	11.84	34.64	75TH	13.64
30.42	ROIH	11.98	35.03	11TOS	13.79
30.83	85TH		35.48	85TH	13.97
31.36	901H	12.35	36.06	11106	14.20
32.17	95TH	12.67	36.92	95TH	14.54
32.72	97TH	12.88	37.48		14.75
33.13	98TH	13.04	37.89		
33.81	99TH	13.31	38.53	99711	15.17
			22.00		

#### (33) CHEST CIRCUMFERENCE

The maximum horizontal circumference of the chest at the fullest part of the breast is measured with a tape. The subject stands erect looking straight ahead. The shoulders and upper extremities are relaxed. The measurement is taken at the maximum point of quiet respiration.





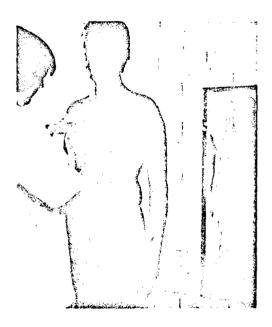
# VARIABLE NO. 33—CHEST CIRCUMFERENCE

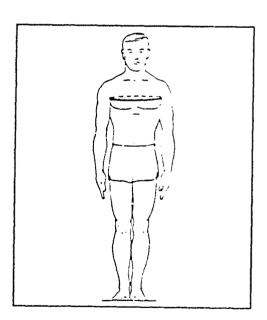
## FEMALES

THE SUMMARY STA	TISTICS	THE SUMMARY STATISTICS	3
CENTIMETERS	INCHES	CENTIMETERS INCHE	S
92.48 MEAN	36.41	100.92 MEAN 39.7	73
0.37 SE (MEAN	0.15	0.27 SE(MEAN) 0.1	
6.84 ST DEV	2.69	5.95 ST DEV 2.3	
0.26 SE(SD)		0.19 SE(SD) 0.0	
, ,		0.00	,0
75.20 MINIMUM		85.00 MINIMUM 33.4	16
117.60 MAXIMUM	46.30	119.40 MAXIMUM 47.0	)1
COEFF. OF VARIATION	N 7.4%	COEFF. OF VARIATION 5.9	
	I 0.48		
KURIOSIS—VETA I		SYMMETRY——VETA I 0.1	
WIGOID VEIN I	2.//	KURTOSISVETA II 2.8	6
NUMBER OF SUBJECTS	334	NUMBER OF SUBJECTS 48	<b>17</b>
-			•
PERCENTIL	-	PERCENTILES	
CENTIMETERS	INCHES	<b>CENTIMETERS</b> INCHE	S
77.41 1ST		87.42 1ST 34.4	2
79.15 2ND		88.93 2ND 35.0	1
80.28 3RD	31.61	89.90 3RD 35.4	0
81.84 5TH	32.22	91.23 5TH 35.9	
84.22 10TH	33.16	93.31 10TH 36.7	
85.80 15TH	33.78	94.73 15TH 37.3	
87.03 20TH	34.26	95.86 20TH 37.7	-
88.07 25TH	34.67	96.84 25TH 38.1	
88.99 30TH	35.03	97.72 30TH 38.4	
89.83 35TH	35.37	98.54 35TH 38.8	
90.62 40TH	35.68	99.32 40TH 39.1	
91.38 45TH	35.98	100.08 45TH 39.4	
92.14 50TH	36.28		
92.90 55TH	36.58		-
93.68 60TH	36.88		
94.49 65TH	37.20		
95.37 70TH	37.55	103.25 65TH 40.6	
96.36 75TH	37.94	103.99 70TH 40.9	-
97.51 80TH		104.90 75TH 41.3	_
	38.39	105.93 80TH 41.7	
	38.95	107.13 85TH 42.19	-
100.90 90TH	39.73	108.66 90TH 42.7	8
104.30 95TH	41.06	110.94 95TH 43.69	8
106.90 97TH	42.09	112.44 97TH 44.2°	7
109.06 98TH	42.94	113.56 98TH 44.7	1
112.94 99TH	44.46	115.32 99TH 45.40	0

## (34) CHEST CIRCUMFERENCE AT SCYE

The horizontal circumference of the chest at the level of the scye-at-midspine landmark is measured with a tape. The subject stands erect looking straight ahead. The shoulders and upper extremities are relaxed. The measurement is taken at the maximum point of quiet respiration.





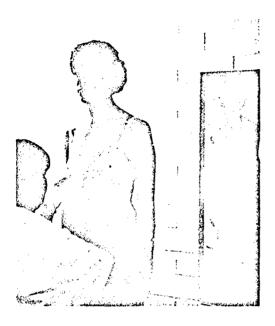
VARIABLE NO. 34-CHEST CIRCUMFERENCE AT SCYE

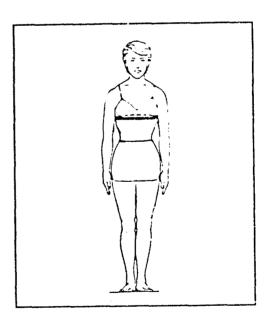
## FEMALES

THE SUM	mary stati Rs	STICS INCHES	THE SUI	Mary Stati Irs	ISTICS INCHES
90.07	MEAN	35.46	163.58	MEAN	40.78
0.31	SE (MEAN)	0.12		SE (MEAN)	
	ST DEV			ST DEV	
0.22	SE(SD)	0.09	0.18		
	` '			, ,	
75.50	MUNIMUM	29.72	89.40	MUNIMUM	35.20
	MAXIMUM		120.30	MAXIMUM	47.36
	VARIATION	6.3%		VARIATION	
SYMMETRY—		0.59		VETA I	
KURTOSIS	VETA II	4.08	KURTOSIS-	VETA II	2.82
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
_					,
_	PERCENTILES			PERCENTILE	-
CENTIMETE	RS	INCHES	CENTIMET	ers	INCHES
78.09	1ST	30.74	91.12	1ST	35.87
79.65	2ND		92.57		
80.56	3RD	31.72	93.48		
81.74	5TH		94.70		
83.45			96.58		
	101H 15TH	32.83			30.02
84.57	15111	33.30	97.85		
85.46	20TH	33.65	98.87		
86.24	25TH	33.95	99.77		
86.94		34.23	100.57		
87.61	35TH		101.32	35TH	39.89
88.25	40TH		102.04		
88.89	45TH	35.00	102.75	45TH 50TH	40.45
89,54	50TH	35.25	103.45		
90.21	55TH	35.52	104.16	55TH	41.01
90.91	60TH	35.79	104.88		
91.65	65TH	36.08	105.63	65TH	41.59
92.46	70TH	36.40	106.43	70TH	41.90
93.37	75TH	36.76	107.30	75 TH	42.24
94.42	HIOS	37.17	108.28	HT08	42.63
95.69	85TH	37.68	109.41	85111	43.07
97.39		38.34	110.83		
100.06	95TH	39.39	112.91		
101.90	97TH		114.22		
103.29			115.15		45.34
105.25	99TH	41.55			
103.33	AAIU	41.00	116.55	99TH	45.89

#### (35) CHEST CIRCUMFERENCE BELOW EREAST

The horizontal circumference of the chest at the level of the inferior juncture of the lowest breast with the rib cage is measured with a tape. On women, the tape may lie on the bra. The subject stands erect looking straight ahead. The shoulders and upper extremities are relaxed. The measurement is taken at the maximum point of quiet respiration.





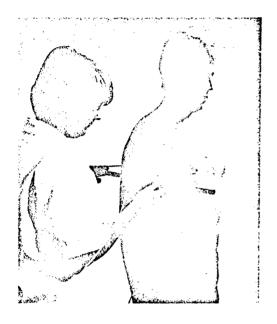
Variable no. 35—chest circumffrence below expast

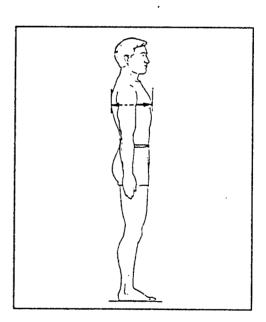
#### FEMALES

THE SUMMARY	<b>/ כיוי</b> אַיזיי	remre		mm con	805U 000-	
CENTIMETERS	. OIMI	INCHES			MARY STAT	
CHILIMITICS		TIACUES		CENTIMET	RS	INCHES
79.01 N	ŒAN	31.11				
				94.50		
	(MEAN)	0.12		0.26		0.10
	DEV	2.13		5.76	ST DEV	2.27
0.21 SF	E(SD)	0.08		0.18	SE(SD)	0.07
ee aa						
66.30 MIN				80.20	MUMINIM	31.57
98.80 MAX		38.90		111.90	MAXIMUM	44.06
COEFF. OF VARI		6.9%		COEFF. OF	VARIATION	6.1%
SYMMETRYVE		0.72		SYMMETRY-	VETA I	0.14
KURTOSISVE	II AI	4.24		KURTOSIS-		
						20.0
NUMBER OF SUBJ	ECTS	334		NUMBER OF	SUBTECTS	487
			_			,
	NITLES	;		F	ERCENTILES	3
CENTIMETERS		INCHES		CENTIMETE	RS	INCHES
68.20	1ST	26.85		81.68	1ST	32.16
69.13	2ND	27.22		83.13	2ND	
69.83	3RD	27.49		84.04	3RD	33.09
70.86	51H	27.90		85.27	51H	33.57
72.57	10TH	28.57		87.18	10TH	34.32
73.76	15TH	29.04		88.49		
	20TH	29.41		89.55	15TH	34.84
	25TH	29.72		90.47	20TH	
	30IH	30.00			25TH	35.62
	351H	30.25		91.31	30TH	35.95
	331H 40TH			92.10	35TH	36.26
		30.49		92.85	40TH	36.56
	45TH	30.72		93.59	45TH	36.85
	50TH	30.95		94.33	50TH	37.14
	55TH	31.18		95.08	55TH	37.43
	60TH	31.41		95.84	60TH	37.73
	65 IH	31.66		96.63	65TH	38.05
	70TH	31.93		97.48	701H	38.38
	75TH	32.23		98.40	75'IH	38.74
	BOTH	32.60		99.44	801H	39.15
	85TH	33.05		100.64	85TH	39.62
85.61	COTH	33.70		102.16	90TH	40.22
88.61	95TH	34.89		104.38	95TH	
	97TH	35.84		105.78		41.09
	HT80	36.65			97TH	41.64
	99TH	38.17		106.78	98TH	42.04
20.23	991N	30.1/		108.28	99TH	42.63

#### (36) CHEST DEPTH

The horizontal distance between the chest, at the level of the right bustpoint on women or the nipple on men, and the back at the same level is measured with a beam caliper. The subject stands erect looking straight ahead. The shoulders and upper extremities are relaxed. The measurement is taken at the maximum point of quiet respiration.





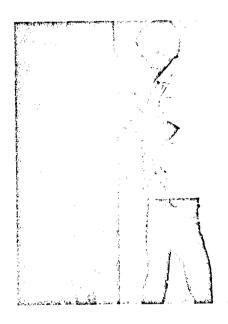
#### VARIABLE NO. 36-CHEST DEPTH

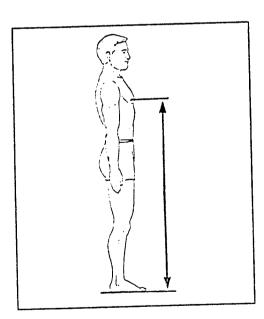
### FEMALES

THE SUM	Mary Stati	ISTICS INCHES	THE SUMMERY STATE. CENTIMETERS	
		11(4)112	CENTIMETERS	INCHES
24.30	MEAN	9.57	25.02 MFAN	9.85
0.13	• •	0.05	0.09 SE(MEAN)	0.03
2.35	ST DEV	0.92	1.95 ST DEV	0.77
0.09	SE(SD)	0.04	0.06 SE(SD)	0.02
17 40	MATTERNA	c 05		_
	MINIMUM	6.85	18.80 MINIMUM	
32.50	MAXIMIM	12.80	31.90 MAXIMIM	12.56
COEFF. OF	VARIATION	9.7%	COEFF. OF VARIATION	7.8%
SYMMETRY—	VETA I	0.40	SYMMETRY——VETA I	0.06
KURIOSIS-	VETA II	3.46	KURIOSISVETA II	2.87
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS	487
P	ERCENTILES	3	PERCENTILES	
CENTIMETE	RS	INCHES		INCHES
19.49	1ST	7.67	20.99 1ST	8.26
19.92	2ND	7.84	21.28 2ND	8.38
20.23	3RD	7.96	21.51 3RD	8.47
20.67	5TH	8.14	21.86 5TH	8.61
21.40	10TH	8.42	22.47 10TH	8.85
21.91	15TH	8.63	22.92 15TH	9.02
22.32	20TH	8.79	23.29 20TH	9.17
22.69	25TH	8.93	23.63 25TH	9.30
23.02	30TH	9.06	23.93 30TH	9.42
23.32	35TH	9.18	24.21 35TH	9.53
23.61	40TH	9.30	24.21 351H 24.48 40TH	
23.89	45TH	9.41	24.45 401H 24.75 45TH	
24.17	50TH	9.52		9.74
24.46	55TH	9.63		9.85
24.75	601H	9.74		9.95
25.05	65TH	9.74	25.53 60TH	10.05
25.37	70TH		25.80 65TH	10.16
		9.99	26.08 70TH	10.27
25.73	75TH	10.13	26.39 75TH	10.39
26.13	HT08	10.29	26.72 80TH	10.52
26.62	85TH	10.48	27.10 85TH	10.67
27.27	90TH	10.74	27.57 90TH	10.86
28.31	95TH	11.15	28.25 95TH	11.12
29.06	97TH	11.44	28.67 97TH	11.29
29.66	98TH	11.68	28.97 98TH	11.41
30.69	99TH	12.08	29.43 99TH	11.59
			27.47 37IU	TT. 33

### (37) CHEST HEIGHT

The vertical distance between a standing surface and the right bustpoint on women or the nipple on men is measured with an anthropometer. The subject stands erect looking straight ahead. The heels are together with the weight distributed equally on both feet. The shoulders and upper extremities are relaxed. The measurement is taken at the maximum point of quiet respiration.





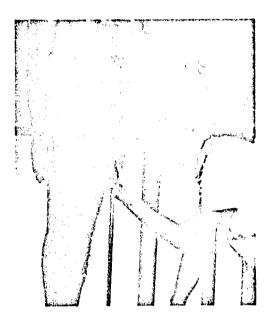
### VARIABLE NO. 37-CHEST HEIGHT

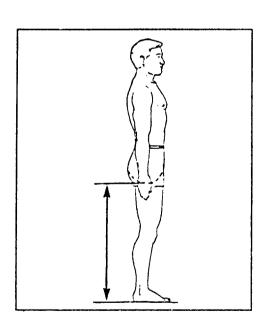
### FEMALES

THE SUM	Mary Stati	STICS		THE SUM	MARY STAT	ISTICS
CENTIMETE	RS	INCHES		CENTIMETE	TRS	INCHES
				<b></b>		21.022
121.09	MEAN	47.67		128.23	MEAN	50.49
0.23	SE (MEAN)	0.09		0.24	SE (MEAN)	0.09
4.17	ST DEV	1.64		5.24	ST DEV	2.06
0.16	SE(SD)	0.06		0.17	SE (SD)	0.07
0.10	ועטועט	0.00		0.17	35 (30)	0.07
	MUNIMUM			112.80		
140.20	MAXIMUM	55.20		141.80	MAXIMUM	55.83
COEFF. OF	VARIATION	3.4%		COEFF. OF	VARIATION	4.1%
SYMMETRY-		0.53		SYMMETRY		
KURTOSIS		3.91		KURIOSIS-		
WKI COID	VEIR II	3.31		WKIG515	VEIA II	2.01
NUMBER OF	SUBJECIS	334		NUMBER OF	SUBJECTS	487
			_			
_		_		_		_
	ERCENTILES				PERCENTILES	
CENTIMETE	:RS	INCHES		CENTIMETE	RS	INCHES
112.36	1ST	44.24		115.57	1ST	45.50
113.51	2ND	44.69		117.21	2ND	46.14
114.17	3RD	44.95		118.20	3RD	46.53
115.00	5TH	45.28		119.50	51H	
116.21	10TH	45.75				
				121.45	10TH	
117.01	15TH	46.07		122.75	15TH	
117.66	20TH	46.32		123.77	20TH	48.73
118.23	25TH	46.55		124.65	25TH	49.08
118.76	30TH	46.76		125.45	30TH	49.39
119.26	35TH	46.95		126.18	35TH	
119.76	40TH	47.15		126.88	401H	
120.25	45TH	47.34			45TH	
				127.56		50.22
120.75	50TH	47.54		128.24	50TH	
121.27	55TH	47.74		128.92	55TH	50.76
121.81	60TH	47.96		129.61	60TH	51.03
122.38	65TH	48.18		130.32	65TH	51.31
123.01	70TH	48.43		131.07	70TH	51.60
123.69	75TH	48.70		131.88	751H	
124.48	HTOS	49.01		132.78	HT08	52.27
125.41	85TH	49.37		133.80	85TH	52.68
126.60	90TH	49.84		135.07	90TH	53.18
128.33	95TH	50.52		136.85	95TH	53.88
129.40	97TH	50.94		137.91	97TH	
130.14	98TH	51.24		138.62	98TH	54.58
131.18	99TH	51.65		139.61	99TH	54.97

#### (38) CROTCH HETCHT

The vertical distance between the standing surface and the crotch is measured with an anthropometer. The subject stands erect looking straight ahead. The heels are together and the weight is distributed equally on both feet.





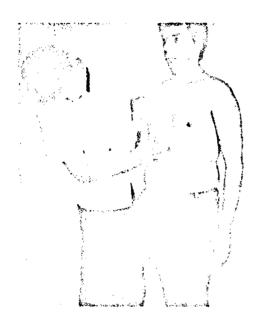
### VARIABLE NO. 38-CROTCH HEIGHT

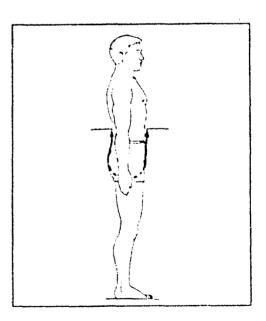
### FEMALES

	MARY STAT			MARY STATISTICS	
CENTIMETE	165	INCHES	CENTIMETE	rs inche	S
79.17	MEAN	31.17	84.18	MEAN 33.1	
	SE (MEAN)		0.19		
	ST DEV	1.07	4.23	ST DEV 1.6	
0.10		0.04	0.14		
				()	
	MINIMUM	29.53	73.00	MINIMUM 28.7	74
89.80	MAXIMUM	35.35	95.50	MAXIMUM 37.6	50
COEFF. OF				VARIATION 5.0	
SYMMETRY	- · · · · ·		SYMMETRY—		
KURTOSIS	VETA II	3.60	KURTOSIS	VETA II 2.6	59
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS 48	37
P	ERCENTILE	 S	-	PERCENTILES	<del></del>
CENTRETE	RS	INCHES	CENTIMETE		S
75.06	lst	29.55	75.12	1ST 29.5	57
75.17	2ND	29.60	76.09	2ND 29.9	6
75.29	3RD	29.64	<b>76.</b> 69	3RD 30.1	9
75.54	5TH	29.74	77.52	5TH 30.5	52
76.04	10TH	29.94	78.81	10TH 31.0	3
76.45	15TH	30.10	79.72	15TH 31.3	8
76.70	20TH	30.20	80.46	20TH 31.6	8
77.11	25TH	30.36	81.12	25TH 31.9	4
77.44	COLH	30.49	81.73	30TH 32.1	8
77.69	35TH	30.58	82.30	35TH 32.4	0
78.01	40TH	30.71	82.86	40TH 32.6	52
78.33	45TH	30.84	83.41	45TH 32.8	14
78.60	5 <b>01</b> H	30.94	83.97	50TH 33.0	16
79.14	55TH	31.16	84.53	55TH 33.2	8
79.42	60TH	31.27	85.11	60TH 33.5	1
79.87	65TH	31.44	85.72	65TH 33.7	5
80.42	70TH	31.66	86.36	70TH 34.0	0
80.88	75TH	31.84	87.07	757H 34.2	8
81.48	HT08	32.08	87.86	80TH 34.5	9
82.20	85TH	32.36	88.77	85TH 34.9	
82.98	90TH	32.67	89.91	90TH 35.4	
83.91	95TH	33.03	91.51	95TH 36.0	-
84.70	97TH	33.35	92.47		
85.50	98TH	33.66	93.11	98TH 36.6	
87.15	99TH	34.31	94.00	99TH 37.0	

#### (39) CROTCH LENGTH (NATURAL INDENTATION)

The distance between the abdomen at the level of the natural indentation of the waist to the same level on the back is measured with a tape passing through the crotch to the right of the genitalia. The tape is held vertically both in front and in back. The subject stands erect looking straight ahead. The heeld are together with the weight distributed equally on both feet. The measurement is taken at the maximum point of quiet respiration.





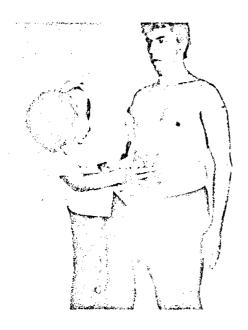
VARIABLE NO. 39—CROICH LENGTH (NATURAL INDENTATION)

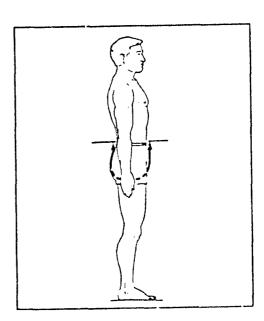
### FEMALES

	· · · · · · · · · · · · · · · · · · ·		_			
THE SUMM	ARY STATI	ISTICS		THE SU	MARY STAT	ISTICS
CENTIMETER	S	INCHES		CENTIMET		INCHES
62.65	MEAN	24.66		64.34	MEAN	25.33
0.21	SE (MEAN)	0.08			SE (MEAN)	
3.79	ST DEV	1.49			ST DEV	
0.15	SE (SD)	0.06		0.12		
	(,	••••		0122	021(02)	0.05
52.00	MINIMUM	20.47		51 10	MINIMUM	20.12
	MAXIMUM				MAXIMUM	
73,30	PRACTION	20.00		75.90	MAXIMUM	29.00
COEFF. OF V	ARIATION	6.0%		COEFF. OF	VARTATTON	6.0%
SYMMETRY					VETA I	
KURTOSIS-	-VETA TT	2.85		KIIDIOSIS	VETA II	3.22
12.14.0015	VIIII XI	2.00		MINIO	ALIN AL	3.22
NUMBER OF S	UBJECTS	334		NUMBER OF	SUBJECTS	487
			_			
		_				
	RCENTILES				PERCENTILES	
CENTIMETER	S	INCHES		CENTIMETE	PS	INCHES
53.61	ıst	21.11		55.03	lst	21.67
54.78	2ND			56.32		
55.50	3RD			57.08		
56.44		22.22		58.06	51H	22.86
57.83		22.77		59.48	1000	23.42
58.75	15TH					
59.48	12111	53.13		60.41		23.78
	2011	23.42 23.66		61.13		24.07
60.11	251H	23.66		61.75		24.31
60.67		23.88		62.30	301H	24.53
61.19	35TH			62.82		
61.68	401H	24.28		63.31		
62.16	45TH	24.47		63.79		25.11
62.64	DUIM	24.66		64.27		25.30
53.12	55TH	24.85		64.75	55TH	25.49
63.61	60TH			65.25		
64.12	65'TH			65.76		
64.65	70TH	25.45		66.32	70TH	
65.23	75TH	25.68				
				66.92	75TH	26.35
65.89	HICS			67.61		
66.64	85TH	26.24		68.42	85TH	26.94
67.58	90TH	26.61		69.45	90TH	27.34
68.94	95TH	27.14		70.99	95TH	27.95
69 <b>.79</b>	97TH	27.48		71.99	97TH	28.34
70.3 <del>9</del>	98TH	27.71		72.71	98TH	28.63
71.26	99TH	28.06		73.82	99TH	29.06

#### (40) CROTCH LENGTH (CMPHALICN)

The distance between the abdomen at the level of the center of the navel (omphalion) to the same level on the back is measured with a tape passing through the crotch to the right of the genitalia. The tape is held vertically both in front and in back. The subject stands erect looking straight ahead. The heels are together with the weight distributed equally on both feet. The measurement is taken at the maximum point of quiet respiration.





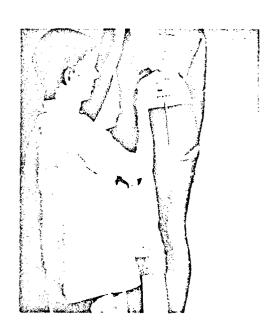
# VARIABLE NO. 40-CROTCH LENGTH (CMPHALICN)

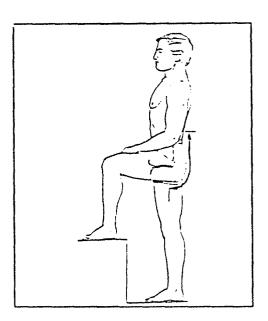
### FEMALES

	<del></del>		<del></del>	
וועוני כיווי	Mary Stat	TOMYOG		
				MMARY STATISTICS
CENTIMETE	48 -	INCHES	CENTIMET	ers inches
77.49	MFAN	30.51	77.20	MEAN 30.39
0.31	SE (MEAN)	0.12	0.21	
5.65	ST DEV	2.23		, ,
0.22			4.72	
0.22	SE(SD)	0.09	0.15	SE(SD) 0.06
63.00	MUNIMUM	24.80	60.10	MINIMIM 23.66
94.20	MAXIMUM	37.09	94.00	
COEFF. OF	VARTATION	7 39	OFFER OF	TADIAMION C 10
SYMMETRY—		0.20		VARIATION 6.1%
			SYMMETRY—	
KURTOSIS-	VETA II	2.88	KURTOSIS-	VETA II 3.35
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS 487
	<del></del>		· · · · · · · · · · · · · · · · · · ·	
	PERCENTILES	5	1	PERCENTILES
CENTIMETE	IRS .	INCHES	CENTIMET	ers inches
64.59	1ST	25.43	65.73	1ST 25.68
66.30	2ND	26.10	67.24	
67.30	3RD	26.50		
68.59			68.18	3RD 25.84
	5TH	27.00	69.41	5TH 27.33
70.46	10TH	27.74	71.24	10TH 28.05
71.70	15TH	28.23	72.43	15TH 28.52
72.68	20TH	28.61	73.36	20TH 28.88
73.54	25TH	28.95	74.14	25TH 29.19
74.33	30TH	29.26	74.83	30TH 29.46
75.07	35TH	29.55	75.47	35TH 29.71
75.78	40TH	29.84		
76.49	45TH		76.06	40TH 29.95
		30.11	76.64	45TH 30.17
77.20	50TH	30.39	77.20	50TH 30.39
77.93	55TH	30.68	77.77	55TH 30.62
78.68	60TH	30.98	78.34	60TH 30.84
79.47	65TH	31.29	78.93	65TH 31.07
80.32	70TH	31.62	79.55	70TH 31.32
81.25	75TH	31.99		
82.31	80111	32.41	80.23	75TH 31.59
83.55			81.00	80TH 31 89
	35TH	32.89	81.90	85TH 32.24
85.12	90TH	33.51	83.06	90TH 32.70
87.40	95TH	34.41	84.85	95TH 33.41
88.81	97TH	34.97	86.07	97TH 33.83
89.79	98TH	35.35	87.00	98TH 34.25
91.19	99TH	35.90	88.52	
		55.55	68.52	99TH 34.85

### (41) CROTCH LENGTH, POSTERIOR (NATURAL INTENTATION)

The surface distance from the crotch at the inner thigh landmark to the back of the waist. The subject stands with the left foot on a platform so that the knee is flexed.





VARIABLE MO. 41-CROTCH LENGTH, POSTERIOR (NATURAL INDENTATION)

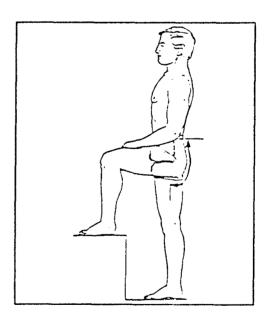
### FEMALES

	MARY STATI			MARY STATT	
CENTIMETE	RS	INCHES	CENTIMETE	RS	INCHES
39.43	MEAN	15.52	38.61	MEAN	15.20
	SE (MEAN)			SE (MEAN)	
	ST DEV	1.23		ST DEV	0.96
0.12	SE(SD)	0.05	0.08	SE(SD)	0.03
	MINIMUM			MINIMUM	
49.50	MAXIMUM	19.49	46.70	MAXIMUM	18.39
COEFF. OF	VARIATION	8.0%	COEFF. OF	VARIATION	6.3%
SYMMETRY-		0.19	SYMMETRY		
KURTOSIS		2.75	KURTOSIS-		3.31
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
					<del> </del>
F	ERCENTILES	;	I	ERCENTILES	S
CENTIMETE	RS	INCHES	CENTIMETE	RS	INCHES
32.89	1ST		33.03	1ST	
33.48	2ND		33.77	2ND	
33.88	3RD	13.34	34.20	3RD	13.47
34.46	5TH	13.57	34.77	5TH	13.69
35.43	10TH		35.59	10TH	
36.12	15TH		36.13	15TH	
36.69	20TH	14.44	36.56	20TH	
37.20	25TH	14.64	36.93	25TH	
37.66	30TH	14.83	37.26	301H 35TH	14.67
38.09	35TH	15.00	37.58	351H	14.79
38.51	40TH	15.16	37.88	40TH	
38.92	45TH	15.32	38.17	45TH	
39.33	50TH	15.48	38.47	50TH	
39.74	55TH	15.65	38.78	55TH	15.27
40.16	60TH	15.81	39.09	601H	15.39
40.60	65TH	15.98	39.42	65TH	15.52
41.06	70TH	16.16	39.77	70TH	15.66
41.55	75TH	16.36	40.16	75TH	15.81
42.11	HT08	16.58	40.61	HTOS	15.99
42.75	85TH	16.83	41.14	85TH	
43.56	90TH	17.15	41.83	90114	16.47
44.72	95TH	17.60	42.87	95TH	16.88
45.44	97TH	17.89	43.55	97TH	17.15
45.96	98TH	18.09	44.05	98TH	17.34
46.73	99TH	18.40	44.83	99TH	

### (42) CROTCH LENGTH, POSTERIOR (CMFHALICN)

The surface distance from the crotch at the inner thigh landmark to the back of the waist at the level of the center of the navel (omphalion) is measured with a tape. The tape passes between the buttocks to the back of the waist. The subject stands with the left foot on a platform so that the knee is flexed.





VARIABLE NO. 42-CROTCH LENGTH, POSTERIOR (CMPHALION)

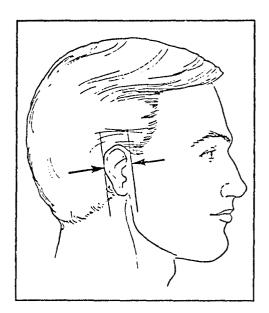
### FEMALES

					<del></del> _	······································
THE SUM	mary <i>s</i> tati Rs	STICS INCHES	C	THE SUM	mary stati Rs	ISTICS INCHES
			_			_
31.63	MEAN	12.45		31.63	MEAN	12.45
	SE (MEAN)	0.05			SE (MEAN)	0.04
	ST DEV	0.03		2.29	ST DEV	0.90
0.10	SE (SD)	0.04		0.07	SE(SD)	
0.10		0.04		0.07	on (ou)	0.03
24.00	MINIMUM	9.45		25.00	MUMINIM	9.84
38.30	MAXIMUM	15.08		39.20		15.43
COEFF. OF	τα ττυ ατα ατ	7.8%	~		VARIATION	7.2%
SYMMETRY—		-0.06			VETA I	
KURTOSIS-		2.83			VETA II	3.30
VOLTONIO-	AETW IT	4.03	. KL	WTOOT2	AETW II	3.30
NUMBER OF	SUBJECTS	334	NU	MBER OF	SUBJECTS	487
			-			
n	ERCENTILES	•		T	PERCENTILES	2
CENTIMETE		INCHES	,	ENTIMETE		INCHES
CENTIFIETE	.r	TIACILED	,	THE TE	CAN	TIACUED
25.80	SI	10.16		25.84	1ST	10.17
26.54	2ND	10.45		26.70	2ND	10.51
26.98	3RD	10.62		27.21	3RD	
27.57	5'TH	10.86		27.85	5TH	10.97
28.46	10TH	11.21		28.77	10TH	
29.06	15TH	11.44		29.34	15TH	
29.53	20TH	11.62		29.78		11.72
29.94	25TH	11.79		30.15		
30.31	30TH	11.93		30.48		12.00
30.65	35TH	12.07		30.78	35TH	12.12
30.98	40TH	12.20		31.06	40TH	
31.30	45TH	12.32	•	31.33	45TH	
31.62	501H	12.45		31.61	50TH	12.44
31.94	55TH	12.58		31.88	55TH	12.55
32.27	60TH	12.70		32.16	60TH	12.66
32.61	65TH	12.84		32.45	65TH	12.77
32.97	70TH	12.98		32.76		
33.36	75TH	13.13		33.10	75TH	
33.79	HF08	13.13		33.48	HI08	
34.28		13.50				
34.28 34.90	85TH			33.94	85TH	13.36
	90TH	13.74		34.53		13.59
35.75	95TH	14.07		35.43	95TH	
36.26	97TH	14.27		36.03	97TH	14.18
36.59	98TH	14.41		36.48	98TH	14.36
37.06	99TH	14.59		37.19	99TH	14.64

## (43) EAR EREADIH

The maximum breadth of the right ear perpendicular to its long axis is measured with a sliding caliper.





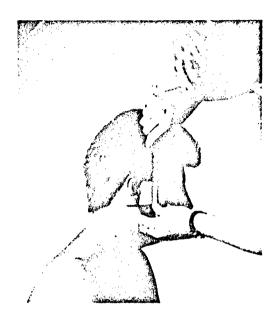
### VARIABLE NO. 43-EAR EREADIH

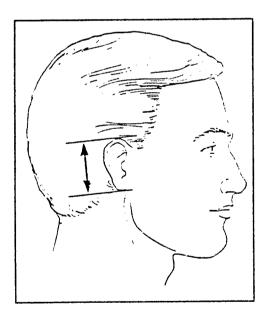
#### FEMALES

<del></del>			<del></del>		
THE SUMM	ARY STATI	ISTICS	THE SUM	MARY STAT	ISTICS
CENTIMETER	S	INCHES	CENTIMETE	RS .	INCHES
3.50	MEAN	1.38	3.80	MEAN	1.50
0.01	SE (MEAN)	0.01	0.01	SE (MEAN)	0.00
	ST DEV	0.10	0.27		
0.01	SE(SD)	0.00	0.01	SE(SD)	0.00
, , , , , , ,	(,			02(02)	
2.70	MUNIMUM	1.06	3.10	MINIMUM	1.22
	MAXIMUM	1.61	4.70		
			10.0		2.03
COEFF. OF V	ARIATION	6.9%	COEFF. OF	VARIATION	7.1%
SYMMETRY		0.09	SYMMETRY-		0.09
KURTOSIS		3.07	KURTOSIS-		
10140010	VD241 11	3.07	widoos	ADIM TT	2.02
NUMBER OF S	TRIFTE	334	NUMBER OF	STIRTECTS	487
normal or b	OBLEID	<b>034</b>	NOTES OF	SOMECIS	407
DE	RCENTILES	2	τ	PERCENTILES	2
CENTIMETER		INCHES	CENTIMETE		INCHES
CLASTITUTE		Inchi	CENTATION	AC)	INCIES
2.95	1ST	1.16	3.22	1ST	1.27
3.02	2ND	1.19	3.27	2ND	1.29
3.06	3RD	1.21	3.31	3RD	1.30
3.12	51H	1.21	3.36		
3.20	10TH	1.26		5TH	1.32
3.25		1.28	3.46	10TH	
	15TH		3.52	15TH	
3.30	20TH	1.30	3.57	20TH	
3.33	25TH	1.31	3.62	25TH	-
3.37	30TH	1.33	3.66	30TH	
3.40	35TH	1.34	3.70	35TH	1.46
3.43	40TH	1.35	3.73	40TH	1.47
3.46	45TH	1.36	3.77	45TH	1.48
3.49	50TH	1.37	3.80	50TH	1.50
3.52	55TH	1.39	3.84	55TH	1.51
3.55	60TH	1.40	3.87	60TH	
3.59	65TH	1.41	3.91	65TH	1.54
3.62	70TH	1.43	3.95	70TH	1.55
3.66	75TH	1.44	3.99	75TH	1.57
3.70	80TH	1.46	4.03	BOTH	1.59
3.75	85TH	1.48	4.08	85TH	
3.73	90TH	1.50	4.15	90TH	1.63
3.92	95TH	1.54			
3.92 3.98			4.24	95TH	
	97TH	1.57	4.31	97TH	
4.03	98TH	1.59	4.36	98TH	1.72
4.10	99TH	1.61	4.44	99TH	1.75
			·		

### (44) EAR LENGTH

The length of the right ear from its highest to lowest points on a line parallel to the long axis of the ear is measured with a sliding caliper.





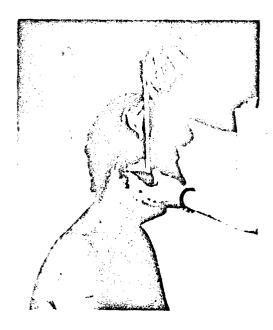
# VARIABLE NO. 44—EAR LENGIH

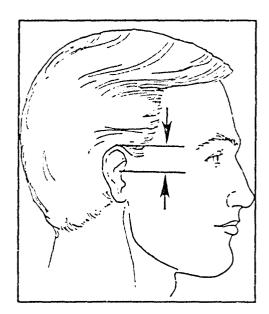
#### FEMALES

6.14 MEAN 2.42 6.62 MEAN 2.6 0.02 SE (MEAN) 0.01 0.02 SE (MEAN) 0.0 0.36 ST DEV 0.14 0.40 ST DEV 0.1 0.01 SE (SD) 0.01 0.01 SE (SD) 0.0 5.10 MINIMUM 2.01 5.40 MINIMUM 2.1 7.10 MAXIMUM 2.80 7.90 MAXIMUM 3.1  COEFF. OF VARIATION 5.8% COEFF. OF VARIATION 6.1 SYMMETRY—VETA I -0.07 SYMMETRY—VETA I 0.2 KURTOSIS—VETA II 2.92 KURTOSIS—VETA II 3.0  NUMBER OF SUBJECTS 334 NUMBER OF SUBJECTS 48  PERCENTILES PERCENTILES CENTIMETERS INCHES CENTIMETERS INCHES 5.25 LST 2.07 5.80 LST 2.2 5.37 2ND 2.12 5.86 2ND 2.3 5.45 3RD 2.14 5.91 3RD 2.3 5.54 5TH 2.18 5.98 5TH 2.3 5.68 LOTH 2.24 6.11 LOTH 2.4 5.77 LSTH 2.27 6.20 LSTH 2.4 5.90 25TH 2.32 6.34 25TH 2.4 5.90 25TH 2.32 6.34 25TH 2.5 5.95 3OTH 2.34 6.40 3OTH 2.5 6.00 3STH 2.36 6.64 5.35TH 2.5 6.05 4OTH 2.33 6.51 4OTH 2.5 6.05 4OTH 2.33 6.51 4OTH 2.5 6.05 4OTH 2.42 6.61 5OTH 2.6 6.14 5OTH 2.42 6.61 5OTH 2.6 6.18 5STH 2.43 6.66 5STH 2.5 6.18 5STH 2.43 6.66 5STH 2.5 6.23 6OTH 2.44 6.11 6.71 4OTH 2.5 6.24 6.18 5STH 2.47 6.76 6STH 2.6 6.25 6STH 2.47 6.76 6STH 2.6 6.26 6.27 6STH 2.47 6.76 6STH 2.6 6.28 6OTH 2.49 6.81 7OTH 2.6 6.38 7STH 2.51 6.87 7STH 2.7 6.59 9OTH 2.60 7.13 9OTH 2.8 6.80 9TH 2.68 7.42 9TH 2.9 6.86 9STH 2.70 7.52 9STH 2.8 6.86 9STH 2.70 7.52 9STH 2.8					
CENTIMETERS   INCHES   CENTIMETERS   INCHES	THE SUM	MARY STATI	STICS	THE SUMMARY STATE	STICS
0.02 SE (MEAN) 0.01 0.36 ST DEV 0.14 0.01 SE (SD) 0.01 0.01 SE (SD) 0.01 0.01 SE (SD) 0.01  5.10 MINIMUM 2.01 7.10 MAXIMUM 2.80 7.90 MAXIMUM 3.1  COEFF. OF VARIATION 5.8% COEFF. OF VARIATION 5.8% SYMMETRY——VETA I -0.07 KURIOSIS——VETA II 2.92  NUMBER OF SUBJECTS 334  NUMBER OF SUBJECTS 334  NUMBER OF SUBJECTS 46  PERCENTILES CENTIMETERS INCHES  CENTIMETERS INCHES  CENTIMETERS INCHES  SPERCENTILES CENTIMETERS INCHES  CENTIMETERS INCHES  CENTIMETERS INCHE  5.25 1ST 2.07 5.86 2ND 2.12 5.86 2ND 2.3 5.45 3RD 2.14 5.91 3RD 2.3 5.45 3RD 2.14 5.96 5NH 2.38 5.68 10TH 2.24 6.11 10TH 2.4 5.77 15TH 2.27 6.20 15TH 2.3 5.84 20TH 2.30 6.28 20TH 2.4 5.79 25TH 2.32 6.34 25TH 2.32 6.30 35TH 2.34 6.00 35TH 2.35 6.09 45TH 2.40 6.65 40TH 2.23 6.05 40TH 2.42 6.16 50TH 2.42 6.18 55TH 2.43 6.23 60TH 2.45 6.24 6.61 50TH 2.5 6.27 65TH 2.47 6.28 5TH 2.5 6.29 5TH 2.49 6.38 75TH 2.51 6.44 80TH 2.53 6.59 90TH 2.66 6.70 95TH 2.66 6.70 95TH 2.67 6.71 95TH 2.57 6.75 98TH 2.58 6.86 98TH 2.70 7.52 98TH 2.58 6.86 98TH 2.70 7.52 98TH 2.58	CENTIMETE	rs .	INCHES		
0.02 SE (MEAN) 0.01 0.36 ST DEV 0.14 0.01 SE (SD) 0.01 0.01 SE (SD) 0.01 5.10 MINIMUM 2.01 7.10 MAXIMUM 2.80 7.90 MAXIMUM 3.1  COEFF. OF VARIATION 5.8% COEFF. OF VARIATION 5.8% SYMMETRY——VETA I -0.07 KURIOSIS——VETA II 2.92  NUMBER OF SUBJECTS 334  NUMBER OF SUBJECTS 334  NUMBER OF SUBJECTS 334  NUMBER OF SUBJECTS 334  NUMBER OF SUBJECTS 1NCHES  CENTIMETERS INCHES  FERCENTILES CENTIMETERS INCHES  CENTIMETERS INCHES  S.25 1ST 2.07  5.80 1ST 2.07  5.80 1ST 2.2  5.45 3RD 2.14 5.91 3PD 2.3  5.45 3RD 2.14 5.91 3PD 2.3  5.54 5TH 2.18 5.68 10TH 2.24 6.11 10TH 2.4 5.77 15TH 2.27 6.20 15TH 2.4 5.77 15TH 2.30 6.28 20TH 2.4 5.79 25TH 2.30 6.28 20TH 2.4 5.90 25TH 2.30 6.28 20TH 2.4 6.00 35TH 2.34 6.00 35TH 2.34 6.00 35TH 2.35 6.09 45TH 2.40 6.65 40TH 2.33 6.60 40TH 2.42 6.11 50TH 2.5 6.14 50TH 2.42 6.16 50TH 2.45 6.05 40TH 2.42 6.16 6.55 40TH 2.23 6.24 6.66 55TH 2.6 6.25 60TH 2.45 6.26 6.27 65TH 2.47 6.27 65TH 2.47 6.28 5TH 2.51 6.29 5TH 2.51 6.38 75TH 2.51 6.44 80TH 2.53 6.59 90TH 2.60 7.52 98TH 2.7 6.28 5TH 2.26 6.68 97TH 2.68 6.70 7.52 98TH 2.8 6.86 98TH 2.70 7.52 98TH 2.9					
0.02 SE(MEAN) 0.01 0.36 ST DEV 0.14 0.01 SE(SD) 0.01 0.01 SE(SD) 0.01 5.10 MINIMUM 2.01 7.10 MAXIMUM 2.80 7.90 MAXIMUM 3.1  COEFF. OF VARIATION 5.8% COEFF. OF VARIATION 5.8% SYMMETRY——VETA I -0.07 SYMMETRY——VETA II 2.92 KURTOSIS——VETA II 2.92 KURTOSIS——VETA II 2.92 KURTOSIS——VETA II 3.0  NUMBER OF SUBJECTS 334  PERCENTILES CENTIMETERS TRICHES  5.25 1ST 2.07 5.80 1ST 2.07 5.37 2ND 2.12 5.45 3RD 2.14 5.91 3PD 2.5 5.45 1ST 2.18 5.98 5TH 2.5 5.68 10TH 2.24 6.11 10TH 2.4 5.77 15TH 2.27 6.84 20TH 2.30 6.28 20TH 2.4 5.90 25TH 2.32 6.30 6.28 20TH 2.4 5.90 25TH 2.32 6.00 35TH 2.34 6.00 35TH 2.34 6.00 35TH 2.34 6.00 35TH 2.34 6.00 35TH 2.36 6.09 45TH 2.40 6.15 40TH 2.33 6.11 40TH 2.4 6.11 50TH 2.4 6.13 50TH 2.4 6.14 50TH 2.42 6.15 50TH 2.4 6.15 6.71 60TH 2.6 6.16 50TH 2.45 6.17 65TH 2.47 6.6.66 55TH 2.6 6.18 55TH 2.47 6.6.66 55TH 2.6 6.27 65TH 2.47 6.6.67 65TH 2.6 6.38 75TH 2.51 6.44 80TH 2.53 6.59 90TH 2.60 7.13 90TH 2.6 6.70 95TH 2.65 7.00 85TH 2.6 6.80 97TH 2.68 7.52 98TH 2.5 6.86 98TH 2.70 7.52 98TH 2.5	6.14	MEAN	2.42		
0.01 SE(SD) 0.01  5.10 MINIMUM 2.01  7.10 MAXIMUM 2.80  7.90 MAXIMUM 3.3  COEFF. OF VARIATION 5.8%  SYMMETRY——VETA I -0.07  KURTOSIS——VETA II 2.92  KURTOSIS——VETA II 2.92  KURTOSIS——VETA II 2.92  NUMBER OF SUBJECTS 334  NUMBER OF SUBJECTS 334  PERCENTILES  CENTIMETERS  INCHES  SENTIMETERS  CENTIMETERS  INCHES  SENTIMETERS  FERCENTILES  CENTIMETERS  INCHES  SENTIMETERS  INCHES  SENTIME	0.02	SE (MEAN)	0.01		
5.10 MINIMUM 2.01 7.10 MAXIMUM 2.80 7.90 MAXIMUM 3.1  COEFF. OF VARIATION 5.8% SYMMETRY—VETA I -0.07 KURTOSIS—VETA II 2.92  NUMBER OF SUBJECTS 334  NUMBER OF SUBJECTS 1NCHS  FERCENTILES CENTIMETERS INCHES  CENTIMETERS INCHES  SENTIMETERS INCHES  FERCENTILES CENTIMETERS INCHES  SOME 2.12  5.86 2ND 2.13  5.45 3RD 2.14  5.91 3PD 2.13  5.68 10TH 2.18  5.68 10TH 2.24  6.11 10TH 2.40  5.77 15TH 2.27  6.20 15TH 2.40  5.90 25TH 2.32  6.34 25TH 2.5  5.95 30TH 2.34  6.00 35TH 2.34  6.00 35TH 2.34  6.00 35TH 2.36  6.05 40TH 2.33  6.09 45TH 2.33  6.09 45TH 2.40  6.14 50TH 2.42  6.15 40TH 2.24  6.16 50TH 2.45  6.09 45TH 2.40  6.16 6.56 45TH 2.50  6.27 65TH 2.47  6.28 70TH 2.49  6.38 75TH 2.51  6.44 80TH 2.53  6.59 90TH 2.60  7.52 98TH 2.5  6.86 98TH 2.70  7.52 98TH 2.5  6.86 98TH 2.70  7.52 98TH 2.5			0.14	0.40 ST DEV	0.3
7.10 MAXIMUM 2.80 7.90 MAXIMUM 3.1  COEFF. OF VARIATION 5.8% COEFF. OF VARIATION 6.1  SYMMETRY——VETA I -0.07 SYMMETRY——VETA I 0.2  KURTOSIS——VETA II 2.92 KURTOSIS——VETA II 3.0  NUMBER OF SUBJECTS 334 NUMBER OF SUBJECTS 48  PERCENTILES PERCENTILES  CENTIMETERS INCHES CENTIMETERS INCHE  5.25 1ST 2.07 5.80 1ST 2.2  5.37 2ND 2.12 5.86 2ND 2.3  5.45 3RD 2.14 5.91 3PD 2.3  5.54 5TH 2.18 5.98 5TH 2.3  5.68 10TH 2.24 6.11 10TH 2.4  5.77 15TH 2.27 6.20 15TH 2.4  5.84 20TH 2.30 6.28 20TH 2.4  5.90 25TH 2.32 6.34 25TH 2.5  5.90 25TH 2.32 6.34 25TH 2.5  6.00 35TH 2.34 6.40 30TH 2.5  6.00 35TH 2.34 6.40 30TH 2.5  6.05 40TH 2.33 6.51 40TH 2.5  6.05 40TH 2.33 6.51 40TH 2.5  6.09 45TH 2.40 6.56 45TH 2.5  6.14 50TH 2.42 6.61 50TH 2.6  6.14 50TH 2.42 6.61 50TH 2.6  6.15 6.14 50TH 2.42 6.61 50TH 2.6  6.16 55TH 2.47 6.76 65TH 2.6  6.17 65TH 2.47 6.76 65TH 2.6  6.27 65TH 2.47 6.76 65TH 2.6  6.28 75TH 2.5  6.30 70TH 2.49 6.81 70TH 2.6  6.31 70TH 2.6  6.32 70TH 2.49 6.81 70TH 2.6  6.33 75TH 2.51 6.87 75TH 2.7  6.51 85TH 2.55 7.00 95TH 2.8  6.86 98TH 2.70 7.52 98TH 2.5  6.86 98TH 2.70 7.52 98TH 2.5	0.01	SE(SD)	0.01	0.01 SE(SD)	0.0
7.10 MAXIMUM 2.80 7.90 MAXIMUM 3.1  COEFF. OF VARIATION 5.8% COEFF. OF VARIATION 6.1  SYMMETRY——VETA I -0.07 SYMMETRY——VETA I 0.2  KURTOSIS——VETA II 2.92 KURTOSIS——VETA II 3.0  NUMBER OF SUBJECTS 334 NUMBER OF SUBJECTS 46  PERCENTILES PERCENTILES  CENTIMETERS INCHES CENTIMETERS INCHE  5.25 1ST 2.07 5.80 1ST 2.2  5.37 2ND 2.12 5.86 2ND 2.3  5.45 3RD 2.14 5.91 3PD 2.3  5.54 5TH 2.18 5.98 5TH 2.3  5.68 10TH 2.24 6.11 10TH 2.4  5.77 15TH 2.27 6.20 15TH 2.4  5.84 20TH 2.30 6.28 20TH 2.4  5.90 25TH 2.32 6.34 25TH 2.5  5.90 25TH 2.32 6.34 25TH 2.5  5.95 30TH 2.34 6.40 30TH 2.5  6.00 35TH 2.36 6.45 35TH 2.5  6.05 40TH 2.33 6.51 40TH 2.5  6.05 40TH 2.33 6.51 40TH 2.5  6.09 45TH 2.40 6.56 45TH 2.5  6.14 50TH 2.42 6.61 50TH 2.6  6.14 50TH 2.42 6.61 50TH 2.6  6.15 6.14 50TH 2.42 6.61 50TH 2.6  6.16 55TH 2.47 6.76 65TH 2.6  6.17 65TH 2.47 6.76 65TH 2.6  6.27 65TH 2.47 6.76 65TH 2.6  6.28 75TH 2.51 6.87 75TH 2.5  6.30 70TH 2.49 6.81 70TH 2.6  6.31 70TH 2.53 6.94 80TH 2.7  6.51 85TH 2.55 7.02 85TH 2.5  6.59 90TH 2.60 7.13 90TH 2.8  6.86 98TH 2.70 7.52 98TH 2.5					
COEFF. OF VARIATION 5.8% COEFF. OF VARIATION 6.1 SYMMETRY——VETA I -0.07 KURIOSIS——VETA II 2.92  NUMBER OF SUBJECTS 334  PERCENTILES  CENTIMETERS INCHES  PERCENTILES  CENTIMETERS INCHES  TOTAL 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0					
SYMMETRY——VETA I         0.07           KURICSIS——VETA II         2.92         KURTOSIS——VETA II         3.0           NUMBER OF SUBJECTS         48           PERCENTILES           CENTIMETERS INCHES         PERCENTILES           CENTIMETERS INCHES         CENTIMETERS INCHES           DECENTIMETERS INCHES           CENTIMETERS INCHES           PERCENTILES           PERCENTILES           PERCENTILES	7.10	MUNILXAM	2.80	7.90 MAXIMUM	3.1
SYMMETRY——VETA I         0.07           KURICSIS——VETA II         2.92         KURTOSIS——VETA II         3.0           NUMBER OF SUBJECTS         48           PERCENTILES           CENTIMETERS INCHES         PERCENTILES           CENTIMETERS INCHES         CENTIMETERS INCHES           DECENTIMETERS INCHES           CENTIMETERS INCHES           PERCENTILES           PERCENTILES           PERCENTILES	COEFF. OF	VARIATION	5.8%	COEFF. OF VARIATION	6.1
NUMBER OF SUBJECTS   334   NUMBER OF SUBJECTS   48					
PERCENTILES CENTIMETERS INCHES CENTIMETERS INCHES CENTIMETERS INCHES CENTIMETERS INCHES  5.25	KURTOSIS-	VETA II	2.92		
PERCENTILES CENTIMETERS INCHES CENTIMETERS INCHES CENTIMETERS INCHES CENTIMETERS INCHES  5.25				,	
CENTIMETERS         INCHES         CENTIMETERS         INCHES           5.25         1ST         2.07         5.80         1ST         2.2           5.37         2ND         2.12         5.86         2ND         2.3           5.45         3RD         2.14         5.91         3PD         2.3           5.54         5TH         2.18         5.98         5TH         2.3           5.68         10TH         2.24         6.11         10TH         2.4           5.77         15TH         2.27         6.20         15TH         2.4           5.84         20TH         2.30         6.28         20TH         2.4           5.90         25TH         2.32         6.34         25TH         2.5           5.95         30TH         2.34         6.40         30TH         2.5           6.00         35TH         2.36         6.45         35TH         2.5           6.05         40TH         2.33         6.51         40TH         2.5           6.09         45TH         2.40         6.56         45TH         2.6           6.14         50TH         2.42         6.61         50TH	NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS	48
CENTIMETERS         INCHES         CENTIMETERS         INCHE           5.25         1ST         2.07         5.80         1ST         2.2           5.37         2ND         2.12         5.86         2ND         2.3           5.45         3RD         2.14         5.91         3PD         2.3           5.54         5TH         2.18         5.98         5TH         2.3           5.68         10TH         2.24         6.11         10TH         2.4           5.77         15TH         2.27         6.20         15TH         2.4           5.84         20TH         2.30         6.28         20TH         2.4           5.90         25TH         2.32         6.34         25TH         2.5           5.95         30TH         2.34         6.40         30TH         2.5           6.00         35TH         2.36         6.45         35TH         2.5           6.05         40TH         2.33         6.51         40TH         2.5           6.09         45TH         2.40         6.56         45TH         2.5           6.14         50TH         2.42         6.61         50TH         <				-	
CENTIMETERS         INCHES         CENTIMETERS         INCHE           5.25         1ST         2.07         5.80         1ST         2.2           5.37         2ND         2.12         5.86         2ND         2.3           5.45         3RD         2.14         5.91         3PD         2.3           5.54         5TH         2.18         5.98         5TH         2.3           5.68         10TH         2.24         6.11         10TH         2.4           5.77         15TH         2.27         6.20         15TH         2.4           5.84         20TH         2.30         6.28         20TH         2.4           5.90         25TH         2.32         6.34         25TH         2.5           5.95         30TH         2.34         6.40         30TH         2.5           6.00         35TH         2.36         6.45         35TH         2.5           6.05         40TH         2.33         6.51         40TH         2.5           6.09         45TH         2.40         6.56         45TH         2.5           6.14         50TH         2.42         6.61         50TH         <	P	ERCENTILES		PERCENTTIES	<b>`</b>
5.25 1ST 2.07 5.80 1ST 2.2 5.37 2ND 2.12 5.86 2ND 2.3 5.45 3RD 2.14 5.91 3PD 2.3 5.54 5TH 2.18 5.98 5TH 2.3 5.68 10TH 2.24 6.11 10TH 2.4 5.77 15TH 2.27 6.20 15TH 2.4 5.84 20TH 2.30 6.28 20TH 2.4 5.90 25TH 2.32 6.34 25TH 2.5 5.95 30TH 2.34 6.40 30TH 2.5 6.00 35TH 2.36 6.45 35TH 2.5 6.05 40TH 2.33 6.51 40TH 2.5 6.09 45TH 2.40 6.56 45TH 2.5 6.14 50TH 2.42 6.61 50TH 2.6 6.18 55TH 2.43 6.66 55TH 2.6 6.18 55TH 2.43 6.66 55TH 2.6 6.23 60TH 2.45 6.71 60TH 2.6 6.27 65TH 2.47 6.76 65TH 2.6 6.32 70TH 2.49 6.81 70TH 2.6 6.38 75TH 2.51 6.87 75TH 2.7 6.38 75TH 2.51 6.87 75TH 2.7 6.44 80TH 2.53 6.94 80TH 2.7 6.51 85TH 2.56 7.02 85TH 2.7 6.59 90TH 2.60 7.13 90TH 2.8 6.72 95TH 2.65 7.30 95TH 2.8 6.80 97TH 2.68 7.42 97TH 2.9 6.86 98TH 2.70 7.52 98TH 2.9					
5.37       2ND       2.12       5.86       2ND       2.3         5.45       3RD       2.14       5.91       3RD       2.3         5.54       5TH       2.18       5.98       5TH       2.3         5.68       10TH       2.24       6.11       10TH       2.4         5.77       15TH       2.27       6.20       15TH       2.4         5.84       20TH       2.30       6.28       20TH       2.4         5.90       25TH       2.32       6.34       25TH       2.5         6.00       35TH       2.36       6.45       35TH       2.5         6.05       40TH       2.33       6.51       40TH       2.5         6.05       40TH       2.33       6.51       40TH       2.5         6.05       40TH       2.33       6.51       40TH       2.5         6.09       45TH       2.40       6.56       45TH       2.5         6.14       50TH       2.42       6.61       50TH       2.6         6.23       60TH       2.45       6.71       60TH       2.6         6.27       65TH       2.47       6.76       65TH					
5.45       3RD       2.14       5.91       3RD       2.3         5.54       5TH       2.18       5.98       5TH       2.3         5.68       10TH       2.24       6.11       10TH       2.4         5.77       15TH       2.27       6.20       15TH       2.4         5.84       20TH       2.30       6.28       20TH       2.4         5.90       25TH       2.32       6.34       25TH       2.5         5.95       30TH       2.34       6.40       30TH       2.5         6.00       35TH       2.36       6.45       35TH       2.5         6.05       40TH       2.33       6.51       40TH       2.5         6.09       45TH       2.40       6.56       45TH       2.5         6.14       50TH       2.42       6.61       50TH       2.6         6.18       55TH       2.43       6.66       55TH       2.6         6.23       60TH       2.45       6.71       60TH       2.6         6.32       70TH       2.49       6.81       70TH       2.6         6.38       75TH       2.51       6.87       75TH <td>5.25</td> <td></td> <td></td> <td>5.80 1ST</td> <td>2.2</td>	5.25			5.80 1ST	2.2
5.54 5TH 2.18 5.98 5TH 2.3 5.68 10TH 2.24 6.11 10TH 2.4 5.77 15TH 2.27 6.20 15TH 2.4 5.84 20TH 2.30 6.28 20TH 2.4 5.90 25TH 2.32 6.34 25TH 2.5 5.95 30TH 2.34 6.40 30TH 2.5 6.00 35TH 2.36 6.45 35TH 2.5 6.05 40TH 2.33 6.51 40TH 2.5 6.09 45TH 2.40 6.56 45TH 2.5 6.14 50TH 2.42 6.61 50TH 2.6 6.18 55TH 2.43 6.66 55TH 2.6 6.23 60TH 2.45 6.71 60TH 2.6 6.27 65TH 2.47 6.76 65TH 2.6 6.32 70TH 2.49 6.81 70TH 2.6 6.38 75TH 2.51 6.87 75TH 2.7 6.44 80TH 2.53 6.94 80TH 2.7 6.51 85TH 2.53 6.94 80TH 2.7 6.59 90TH 2.60 7.13 90TH 2.8 6.80 97TH 2.68 7.42 97TH 2.9 6.80 97TH 2.68 7.42 97TH 2.9	5.37	2ND	2.12	5.86 2ND	2.3
5.68       10TH       2.24       6.11       10TH       2.4         5.77       15TH       2.27       6.20       15TH       2.4         5.84       20TH       2.30       6.28       20TH       2.4         5.90       25TH       2.32       6.34       25TH       2.5         5.95       30TH       2.34       6.40       30TH       2.5         6.00       35TH       2.36       6.45       35TH       2.5         6.05       40TH       2.33       6.51       40TH       2.5         6.09       45TH       2.40       6.56       45TH       2.5         6.14       50TH       2.42       6.61       50TH       2.6         6.18       55TH       2.43       6.66       55TH       2.6         6.23       60TH       2.45       6.71       60TH       2.6         6.27       65TH       2.47       6.76       65TH       2.6         6.32       70TH       2.49       6.81       70TH       2.6         6.38       75TH       2.51       6.87       75TH       2.7         6.51       85TH       2.56       7.02       85T	5.45	3RD	2.14	5.91 3PD	2.3
5.68       10TH       2.24       6.11       10TH       2.4         5.77       15TH       2.27       6.20       15TH       2.4         5.84       20TH       2.30       6.28       20TH       2.4         5.90       25TH       2.32       6.34       25TH       2.5         5.95       30TH       2.34       6.40       30TH       2.5         6.00       35TH       2.36       6.45       35TH       2.5         6.05       40TH       2.33       6.51       40TH       2.5         6.09       45TH       2.40       6.56       45TH       2.5         6.14       50TH       2.42       6.61       50TH       2.6         6.18       55TH       2.43       6.66       55TH       2.6         6.23       60TH       2.45       6.71       60TH       2.6         6.27       65TH       2.47       6.76       65TH       2.6         6.32       70TH       2.49       6.81       70TH       2.6         6.38       75TH       2.51       6.87       75TH       2.7         6.51       85TH       2.56       7.02       85T	5.54	5TH		5.98 5TH	2.3
5.77       15TH       2.27       6.20       15TH       2.4         5.84       20TH       2.30       6.28       20TH       2.4         5.90       25TH       2.32       6.34       25TH       2.5         5.95       30TH       2.34       6.40       30TH       2.5         6.00       35TH       2.36       6.45       35TH       2.5         6.05       40TH       2.33       6.51       40TH       2.5         6.09       45TH       2.40       6.56       45TH       2.5         6.14       50TH       2.42       6.61       50TH       2.6         6.18       55TH       2.43       6.66       55TH       2.6         6.23       60TH       2.45       6.71       60TH       2.6         6.27       65TH       2.47       6.76       65TH       2.6         6.32       70TH       2.49       6.81       70TH       2.6         6.38       75TH       2.51       6.87       75TH       2.7         6.51       85TH       2.56       7.02       85TH       2.7         6.59       90TH       2.60       7.13       90T	5.68	10TH	2.24	6.11 10TH	2.4
5.84       20TH       2.30       6.28       20TH       2.4         5.90       25TH       2.32       6.34       25TH       2.5         5.95       30TH       2.34       6.40       30TH       2.5         6.00       35TH       2.36       6.45       35TH       2.5         6.05       40TH       2.33       6.51       40TH       2.5         6.09       45TH       2.40       6.56       45TH       2.5         6.14       50TH       2.42       6.61       50TH       2.6         6.18       55TH       2.43       6.66       55TH       2.6         6.23       60TH       2.45       6.71       60TH       2.6         6.27       65TH       2.47       6.76       65TH       2.6         6.32       70TH       2.49       6.81       70TH       2.6         6.38       75TH       2.51       6.87       75TH       2.7         6.44       80TH       2.53       6.94       80TH       2.7         6.59       90TH       2.60       7.13       90TH       2.8         6.80       97TH       2.68       7.42       97T	5.77	15TH	2.27		
5.90       25TH       2.32       6.34       25TH       2.5         5.95       30TH       2.34       6.40       30TH       2.5         6.00       35TH       2.36       6.45       35TH       2.5         6.05       40TH       2.33       6.51       40TH       2.5         6.09       45TH       2.40       6.56       45TH       2.5         6.14       50TH       2.42       6.61       50TH       2.6         6.18       55TH       2.43       6.66       55TH       2.6         6.23       60TH       2.45       6.71       60TH       2.6         6.27       65TH       2.47       6.76       65TH       2.6         6.32       70TH       2.49       6.81       70TH       2.6         6.38       75TH       2.51       6.87       75TH       2.7         6.44       80TH       2.53       6.94       80TH       2.7         6.59       90TH       2.60       7.13       90TH       2.8         6.80       97TH       2.68       7.42       97TH       2.9         6.86       98TH       2.70       7.52       98T	5.84	20TH	2.30		
5.95       30TH       2.34       6.40       30TH       2.5         6.00       35TH       2.36       6.45       35TH       2.5         6.05       40TH       2.33       6.51       40TH       2.5         6.09       45TH       2.40       6.56       45TH       2.5         6.14       50TH       2.42       6.61       50TH       2.6         6.18       55TH       2.43       6.66       55TH       2.6         6.23       60TH       2.45       6.71       60TH       2.6         6.27       65TH       2.47       6.76       65TH       2.6         6.32       70TH       2.49       6.81       70TH       2.6         6.38       75TH       2.51       6.87       75TH       2.7         6.44       80TH       2.53       6.94       80TH       2.7         6.59       90TH       2.60       7.13       90TH       2.8         6.80       97TH       2.68       7.42       97TH       2.9         6.86       98TH       2.70       7.52       98TH       2.9	5.90			6.24 2500	2 5
6.05 40TH 2.33 6.51 40TH 2.55 6.09 45TH 2.40 6.56 45TH 2.55 6.14 50TH 2.42 6.61 50TH 2.66 6.18 55TH 2.43 6.66 55TH 2.66 6.23 60TH 2.45 6.71 60TH 2.66 6.27 65TH 2.47 6.76 65TH 2.66 6.32 70TH 2.49 6.81 70TH 2.66 6.38 75TH 2.51 6.87 75TH 2.76 6.44 80TH 2.53 6.94 80TH 2.77 6.51 85TH 2.56 7.02 85TH 2.76 6.59 90TH 2.60 7.13 90TH 2.86 6.72 95TH 2.65 7.30 95TH 2.86 6.80 97TH 2.68 7.42 97TH 2.96 6.86 98TH 2.70 7.52 98TH 2.96				6.40 30TH	2.5
6.05 40TH 2.33 6.51 40TH 2.55 6.09 45TH 2.40 6.56 45TH 2.55 6.14 50TH 2.42 6.61 50TH 2.66 6.18 55TH 2.43 6.66 55TH 2.66 6.23 60TH 2.45 6.71 60TH 2.66 6.27 65TH 2.47 6.76 65TH 2.67 6.32 70TH 2.49 6.81 70TH 2.67 6.38 75TH 2.51 6.87 75TH 2.77 6.44 80TH 2.53 6.94 80TH 2.77 6.51 85TH 2.56 7.02 85TH 2.77 6.59 90TH 2.60 7.13 90TH 2.86 6.72 95TH 2.65 7.30 95TH 2.86 6.80 97TH 2.68 7.42 97TH 2.96 6.86 98TH 2.70 7.52 98TH 2.95				6.45 35TH	2.5
6.09 45TH 2.40 6.56 45TH 2.5 6.14 50TH 2.42 6.61 50TH 2.6 6.18 55TH 2.43 6.66 55TH 2.6 6.23 60TH 2.45 6.71 60TH 2.6 6.27 65TH 2.47 6.76 65TH 2.6 6.32 70TH 2.49 6.81 70TH 2.6 6.38 75TH 2.51 6.87 75TH 2.7 6.44 80TH 2.53 6.94 80TH 2.7 6.51 85TH 2.56 7.02 85TH 2.7 6.59 90TH 2.60 7.13 90TH 2.8 6.72 95TH 2.65 7.30 95TH 2.8 6.80 97TH 2.68 7.42 97TH 2.9 6.86 98TH 2.70 7.52 98TH 2.9				6.51 AOTH	2 5
6.14 50TH 2.42 6.61 50TH 2.66 6.18 55TH 2.43 6.66 55TH 2.66 6.23 60TH 2.45 6.71 60TH 2.66 6.27 65TH 2.47 6.76 65TH 2.66 6.32 70TH 2.49 6.81 70TH 2.66 6.38 75TH 2.51 6.87 75TH 2.77 6.44 80TH 2.53 6.94 80TH 2.77 6.51 85TH 2.56 7.02 85TH 2.77 6.59 90TH 2.60 7.13 90TH 2.86 6.72 95TH 2.65 7.30 95TH 2.86 6.80 97TH 2.68 7.42 97TH 2.96 6.86 98TH 2.70 7.52 98TH 2.96					
6.18 55TH 2.43 6.66 55TH 2.66 6.23 60TH 2.45 6.71 60TH 2.66 6.27 65TH 2.47 6.76 65TH 2.66 6.32 70TH 2.49 6.81 70TH 2.66 6.38 75TH 2.51 6.87 75TH 2.76 6.44 80TH 2.53 6.94 80TH 2.76 6.51 85TH 2.56 7.02 85TH 2.76 6.59 90TH 2.60 7.13 90TH 2.86 6.72 95TH 2.65 7.30 95TH 2.86 6.80 97TH 2.68 7.42 97TH 2.96 6.86 98TH 2.70 7.52 98TH 2.96					
6.23 60TH 2.45 6.71 60TH 2.66 6.27 65TH 2.47 6.76 65TH 2.66 6.32 70TH 2.49 6.81 70TH 2.66 6.38 75TH 2.51 6.87 75TH 2.77 6.44 80TH 2.53 6.94 80TH 2.77 6.51 85TH 2.56 7.02 85TH 2.77 6.59 90TH 2.60 7.13 90TH 2.88 6.72 95TH 2.65 7.30 95TH 2.88 6.80 97TH 2.68 7.42 97TH 2.99 6.86 98TH 2.70 7.52 98TH 2.99				6 66 EETE	2.0
6.27 65TH 2.47 6.76 65TH 2.6 6.32 70TH 2.49 6.81 70TH 2.6 6.38 75TH 2.51 6.87 75TH 2.7 6.44 80TH 2.53 6.94 80TH 2.7 6.51 85TH 2.56 7.02 85TH 2.7 6.59 90TH 2.60 7.13 90TH 2.8 6.72 95TH 2.65 7.30 95TH 2.8 6.80 97TH 2.68 7.42 97TH 2.9 6.86 98TH 2.70 7.52 98TH 2.9					
6.32 70TH 2.49 6.81 70TH 2.66 6.38 75TH 2.51 6.87 75TH 2.7 6.44 80TH 2.53 6.94 80TH 2.7 6.51 85TH 2.56 7.02 85TH 2.7 6.59 90TH 2.60 7.13 90TH 2.8 6.72 95TH 2.65 7.30 95TH 2.8 6.80 97TH 2.68 7.42 97TH 2.9 6.86 98TH 2.70 7.52 98TH 2.9					
6.38 75TH 2.51 6.87 75TH 2.7 6.44 80TH 2.53 6.94 80TH 2.7 6.51 85TH 2.56 7.02 85TH 2.7 6.59 90TH 2.60 7.13 90TH 2.8 6.72 95TH 2.65 7.30 95TH 2.8 6.80 97TH 2.68 7.42 97TH 2.9 6.86 98TH 2.70 7.52 98TH 2.9					
6.44 80TH 2.53 6.94 80TH 2.7 6.51 85TH 2.56 7.02 85TH 2.7 6.59 90TH 2.60 7.13 90TH 2.8 6.72 95TH 2.65 7.30 95TH 2.8 6.80 97TH 2.68 7.42 97TH 2.9 6.86 98TH 2.70 7.52 98TH 2.9					
6.51       85TH       2.56       7.02       85TH       2.7         6.59       90TH       2.60       7.13       90TH       2.8         6.72       95TH       2.65       7.30       95TH       2.8         6.80       97TH       2.68       7.42       97TH       2.9         6.86       98TH       2.70       7.52       98TH       2.9					
6.59 90TH 2.60 7.13 90TH 2.8 6.72 95TH 2.65 7.30 95TH 2.8 6.80 97TH 2.68 7.42 97TH 2.9 6.86 98TH 2.70 7.52 98TH 2.9					
6.72       95TH       2.65       7.30       95TH       2.8         6.80       97TH       2.68       7.42       97TH       2.9         6.86       98TH       2.70       7.52       98TH       2.9					
6.80 97TH 2.68 7.42 97TH 2.9 6.86 98TH 2.70 7.52 98TH 2.9					2.8
6.86 98TH 2.70 7.52 98TH 2.9				7.30 95TH	2.8
· · · · · · · · · · · · · · · · ·	6.80	97TH	2.68		
<b>-</b>	6.86	98TH		7.52 98TH	2.9
7.00 99III 5.0	6.95	99TH	2.73	7.68 99TH	3.0

### (45) EAR LENGTH ABOVE TRAGICN

The distance from the right tragion landmark to the top of the right ear on a line parallel to the long axis of the ear is measured with a sliding caliper.





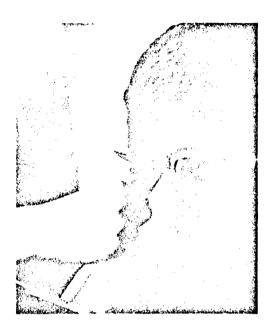
VARIABLE NO. 45-EAR LENGTH ABOVE TRAGION

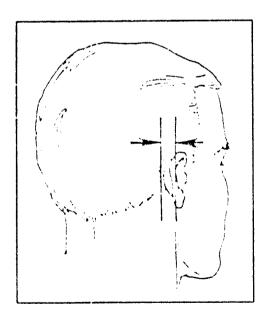
### FEMALES

THE SUN CENTIMETE	Mary Stat Ers	ISITOS INC <del>I</del> ES	c	THE SUM	Mary <i>s</i> tati Rs	STICS INCHES
2.05	MEAN	1 10				
				3.23		
	SF (MEAN)			0.01	SE (MEAN)	0.00
	ST DEV	0.09			ST DEV	0.09
0.01	SE(SD)	0.00		0.01	SE(SD)	
					()	0.00
2.40	MINIMUM	0.94		2 50	MINIMUM	0.98
	MAXIMUM					
3.00	13 MILLIOIT	1.50		4.00	MAXIMUM	1.57
COEFF. OF					VARIATION	7.2%
SYMMETRY		0.29	SY	MMETRY	VETA I	0.14
KURTOSIS	VETA II	3.50	KU	RIOSIS	VETA II	3.20
NUMBER OF	SUBJECTS	334	NU	MBER OF S	SUBJECTS	487
17	TOTAL TOTAL PROPERTY OF		-			**************************************
	ERCENTILES				RCENTILES	
CENTIMETE	RS	INCHES	C	ENTIMETER	স্ত	INCHES
2.42	lst	0.95		2.71	lst	1.07
2.49	211D	0.98		2.76	2ND	1.09
2.53	3RD	0.99		2.80	3RD	1.10
2.58	5TH	1.02		2.85	5711	
2.67	1011	1.05		2.93		
2.72	15TH	1.07			10111	1.15
2.76	20TH		*	2.98	15TH	1.18
		1.09		3.03	20111	1.19
2.80	25TH	1.10		3.07	Solf	1.21
2.83	30TH	1.12		3.10	2014	1.22
2.86	35TH	1.13		3.13	35TH	1.23
2.89	40TH	1.14		3.16	40TH	1.25
2.92	45TH	1.15		3.19	45TH	1.26
2.95	50TH	1.16				
2.97	55TH	1.17		3.22	50111	
3.00	601H	1.18		3.25	551H	
				3.28	601H	1.29
3.03	65TH	1.19		3.31	65TH	1.30
3.06	701H	1.21		3.34	701H	1.32
3.10	75TH	1.22		3.38	751H	1.33
3.14	BOTH	1.24		3.41	SOTH	1.34
3.18	85TH 1	1.25		3.46	85'111	1.36
3.24	SOTH	1.28		3.52	9014	
3.34	951H	1.31				1.39
3.40				3.61	951n	
	97TH	1.34		3.68	9714	1.45
3.45	98711	1.36		3.73	987 <b>H</b>	
3.54	99TH	1.39		3.82	991H	1.51

#### (46) EAR PROTRISION

The horizontal distance between the mastoid process (the bony area behind the bottom of the ear) and the outside of the right ear at its most lateral point is measured using a sliding caliper with its slide reversed.





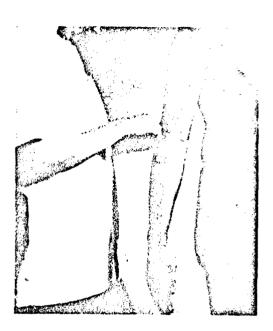
### VARIABLE NO. 46-EAR PROTRISION

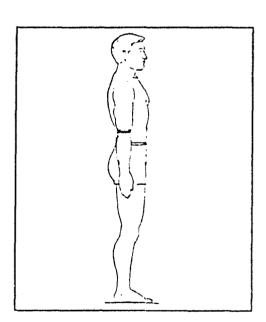
FEMALES

THE SUM	MARY STAT	ISTICS	THE SUM	MARY STATI	STTCS
CENTIMETE	RS	INCHES	CENTIMET		INCHES
		2210222			21102
2.22	MEAN	0.87	2.49	MEAN	0.98
0.02	SE (MEAN)	0.01	0.01	SE (MEAN)	0.01
0.01	ST DEV SE(SD)	0.00	0.01	ST DEV SE(SD)	0.00
	,,		3332	()	
	MUNIMUM			MUNIMUM	
3.50	MAXIMUM	1.38	3.60	MAXIMUM	1.42
COEFF. OF	VARIATION	14.4%	COEFF. OF	VARTATTON	13.3%
SYMMETRY				VETA I	
KURTOSIS-	VETA II	3.89	KURIOSIS-	VETA II	2,90
		•			
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
70	ERCENTILES	-	*	DEVICES WITH THE	,
	RS	TMATER		PERCENTILES PRS	
CLATALIBLE	iw.	шишы	CENTIMETE	200	INCHES
1.56	1ST	0.61	1.81	1ST	0.71
1.63	2ND	0.64	1.87		0.74
1.68	3RD	0.64 0.66	1.91	3RD	
1.74	5TH	0.69	1.97		
1.84	10TH		2.07	1000	0.01
1.91		0.75	2.14	15TH	0.81
1.96	20TH	0.77	2.21		
2.00	25TH		2.26	201H 25TH	0.89
2.05	30TH		2.31	30TH	
2.08	35TH		2.36	35754	0.93
2.12		0.84	2.40		0.94
2.16	45TH	0.85		45774	0.96
2.20	50TH	0.86	2.48	45TH 50TH	0.98
2.23	55TH	0.88	2.53	55TH	0.99
2.27	60TH	0.89	2.57	60TH	1.01
2.31	65TH	0.91	2.61		
2.36	70TH	0.93	2.66		1.05
2.41	75TH	0.95	2.71		1.07
2.47	80TH	0.97	2.77	8011	1.09
2.54	85TH	1.00	2.84	85TH	1.12
2.64	90TH	1.04	2.92		
2.80	95TH	1.10	3.06		1.15
2.92		1.15	3.15		1.24
3.01	STREE	1 10	3.15	7/171	1.24
3.16	99TH	1.25			1.27
3.10	23111	1.45	3.33	99TH	1.31

#### (47) ELBOW CIRCUMFERENCE

The circumference of the right elbow in a plane perpendicular to the long axis of the arm is measured with a tape passing around the elbow at the level of the olecranon-center landmark. The subject stands with the arm straight and slightly away from the side.





### VARIABLE NO. 47-ELECH CIRCUMFERENCE

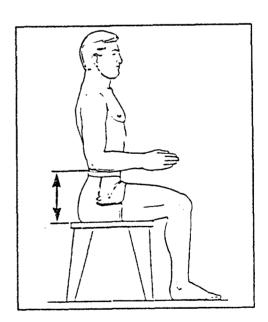
#### **FEMALES**

			-		
			•		
THE SUM	MARY STATI	STICS	THE SU	MMARY STAT	ISTICS
CENTIMETE	RS	INCHES	CENTIMET	ERS	INCHES
			<del></del>		
24.20	MEAN	9.53	27.62	MEAN	10.87
0.07			•	SE (MEAN)	
1.30	ST DEV			•	
		0.51	1.37		0.54
0.05	SE(SD)	0.02	0.04	SE(SD)	0.02
20.80	MINIMUM	8.19	24.00	MINIMIM	9.45
	MAXIMUM			MAXIMUM	
			020.0		
COEFF. OF	VARIATION	5.4%	COEFF. OF	VARIATION	5.0%
SYMMETRY		0.45	Symmetry-	VETA I	0.22
KURTOSIS	VETA II	3.73	KURTOSTS-	VETA II	2.91
			1010025	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2.32
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
·····			-		
P	ERCENTILES	;	:	PERCENTILES	5
CENTIMETE	RS	INCHES	CENTIMET	ers	INCHES
21.23	1ST	8.36	24.62	1ST	9.69
21.64	2ND	8.52	24.98	2ND	9.83
21.88	3RD	8.61	25.19	380	9.92
22.18	5TH	8.73	25.48		10.03
22.61	10TH	8.90	25.92	10TH	10.21
22.89	15TH	9.01	26.22		
23.11	20111	9.10			
			26.46	201H	10.42
23.31	25TH	9.18	26.67		10.50
23.48	30TH	9.24	26.86	201U	10.27
23.64	35TH	9.31	27.04	35TH	10.65
23.80	40TH	9.37	27.21	401H	10.71
23.95	45TH	9.43	27.38	45TH	10.78
24.11	50TH	9.49	27.56		
24.27	55TH	9.55	27.73		
24.43	60TH	9.62	27.91	601H	
24.61	65TH	9.69	28.10	65TH	
24.80	701H	9.76	28.31		
				701H	
25.01	75TH	9.84	28.53	75TH	
25.25	HI08	9.94	28.79	HT08	
25.54	85TH	10.05	29.09	85TH	
25.91	90TH	10.20	29.47	90TH	11.60
26.48	95TH	10.43	30.05	95TH	11.83
26.86	97TH	10.58	30.42	97TH	11.98
27.14	98TH	10.68	30.69	98111	
27.57	99TH	10.85	31.11	99TH	12.25
2,13,	22441	40.00	21.11	22111	16.6

#### (48) ELBOW REST HEIGHT

The vertical distance between a sitting surface and the olecranon landmark on the bottom of the flexed right elbow is measured with an anthropometer. The subject sits erect looking straight ahead. The shoulders and upper arms are relaxed and the forearms and hards are extended forward horizontally with the palms facing each other. The measurement is taken at the maximum point of quiet respiration.





### VARIABLE NO. 48-ELBOW REST HEIGHT

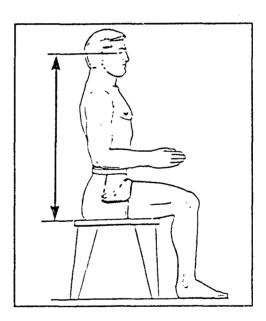
### FEMALES

THE SUM	MARY STATE	ISTICS	THE SUMMARY STATIS	ITCS
CENTIMETE	TRS .	INCHES		NCHES
				.icaiii
23.26	MEAN	9.16	24.20 MEAN	9.53
0.12	SE (MEAN)	0.05	0.11 SE(MEAN)	0.04
2.25	ST DEV	0.88	2.46 ST DEV	C.97
0.09	SE(SD)	0.03		
0.09	ವಹ(ವರ)	0.03	0.08 SE(SD)	0.03
	MINIMUM	5.67	15.60 MINIMUM	6.14
30.00	MAXIMUM	11.81	31.10 MAXIMUM	12.24
COEFF. OF	VARIATION	9.7%	COEFF. OF VARIATION	10.2%
SYMMETRY-		-0.13		-0.15
KURTOSIS		3.64		
10010010	VLIA II	3.04	NORIOSIS——VETA II	3.43
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS	487
				·
F	ERCENTILES	5	PERCENTILES	•
CENTIMETE	RS	INCHES		NCHES
				···
17.50	1ST	6.89	18.16 1ST	7.15
18.32	2ND	7.21	18.94 2ND	7.46
18.82	3RD	7.41	19.44 3RD	7.65
19.48	5TH	7.67	20.10 5TH	7.91
20.43	10TH	8.04	21.09 10TH	8.30
21.03	15TH	8.28		
21.49	20TH		21.74 15TH	8.56
		8.46	22.23 20TH	8.75
21.87	257H	8.61	22.66 25TH	8.92
22.20	301H	8.74	23.02 30TH	9.06
22.50	35TH	8.86	23.36 35TH	9.20
22.78	40TH	8.97	23.67 40TH	9.32
23.05	45TH	9.07	23.97 45TH	9.44
23.31	50TH	9.18	24.27 50TH	9.55
23.57	55TH	9.28	24.56 55TH	9.67
23.83	. 601H	9.38		
24.10	65TH	9.49	:	9.78
24.38	70TH	9.60		9.20
24.69				0.02
	75TH	9.72		.0.16
25.05	HT08	9.86		.0.31
25.47	85TH	10.03	26.65 85TH 1	0.49
26.03	90TH	10.25	27.25 90TH 1	.0.73
26.93	95TH	10.60		1.10
27.57	971H	10.86		1.37
28.09	98TH	11.06		1.57
28,98	99TH	11.41	-	
20,50		** * ** **	30.31 99TH 1	.1.93

#### (49) EYE HEIGHT, SITTING

The vertical distance between a sitting surface and the ectocanthus landmark on the outer corner of the right eye is measured with an anthropometer. The subject sits erect with the head in the Frankfort plane. The shoulders and upper arms are relaxed and the forearms and hands are extended forward horizontally with the palms facing each other. The thighs are parallel and the knees are flexed 90 degrees with the feet in line with the thighs. The measurement is taken at the maximum point of quiet respiration.





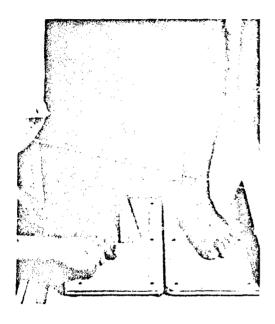
# VARIABLE NO. 49—EYE HEIGHT, SITTING

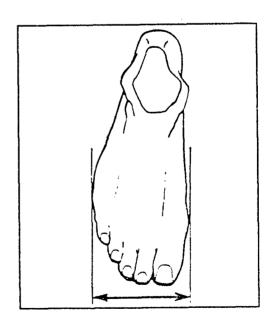
### FEMALES

	<del></del>		_	******************		
			•			
THE SUM	MARY STATI	STICS		THE SUM	MARY STAT	ISTICS
CENTIMETE	TRS .	INCHES		CENTIMETE		INCHES
						21.02.22
76.85		30.26		80.99	MEAN	31.82
0.15	SE (MEAN)	0.06		0.15	SE (MEAN)	0.06
2.70	ST DEV	1.06		3.27	ST DEV	1.29
0.10	SE(SD)	0.04		0.10	SE(SD)	0.04
0.10	OD (OD)	0.04		0.10	on (ob)	0.04
69.10	MINIMUM	27.20		70.70	MINIMUM	27.83
85.40	MAXIMUM	33.62		90.30		
COEFF. OF		3.5%		COEFF. OF	VARIATION	4.0%
SYMMETRY		-0.04		SYMMETRY-		-0.22
KURIOSIS-	VETA II	3.00		KURTOSIS-	VETA II	3.23
NUMBER OF	CTIDITEVONC	224		AWAREN OF	~~~~	
NOVIDER OF	SUDICIS	334		NUMBER OF	SUBJECTS	487
			-	-	<del></del>	
P	ERCENTILES	;		p	ERCENTILES	3
CENTIMETE	RS	INCHES		CENTIMETE		INCHES
				CIACITITITI		THUIL
70.56	1ST	27.78		72.10	1ST	28.38
71.20	2ND	28.03		73.57	2ND	
71.64	3RD	28.21		74.41	3RD	
72.28	5TH	28.46		75.46	5TH	29.71
73.30	10TH	28.86		76.89	10TH	
74.01	15TH	29.14		77.76	15TH	
74.57	201H	29.36		78.42	20TH	
75.05		29.55				
	25TH			78.97	25TH	31.09
75.48		29.72		79.44	30TH	31.28
75.87	35TH	29.87		79.88	35TH	31.45
76.23	40TH	30.01		80.29	40TH	31.61
76.58	45TH	30.15		80.68	45TH	31.76
76.93	50TH	30.29		81.07	50TH	31.92
77.27	55TH	30.42		81.46	55TH	
77.60	60TH	30.55		81.85	60TH	32.23
77.95	65TH	30.69		82.26	65TH	32.39
78.31	70TH	30.83		82.69		
78.59	75TH				70IH	32.56
		30.98		83.16	75TH	32.74
79.12	HT08	31.15		83.69	HTOS	32.95
79.61	85TH	31.34		84.31	85TH	33.19
80.23	90 <b>TH</b>	31.59		85.08	90TH	33.50
81.18	95TH	31.96		86.22	95TH	33.95
81.82	97TH	32.21		86.94	97TH	34.23
82.32	98TH	32.41		87.44		34.43
83.16	99TH	32.74		88.19	99TH	34.72
		2017		00.13	シンゴバ	24.12

#### (50) FOOT BREADIH, HORIZONIAL

The maximum breadth of the right foot is measured on a footbox scale. The subject stands with each foot in a footbox and the weight distributed equally on both feet. The heel of the right foot lightly touches the back of the box, and the side of the foot at the fifth metatarsophalangeal protrusion landmark lightly touches the side of the box. The medial side of the foot is parallel to the long axis of the box. A block is placed against the landmark at the first metatarsophalangeal protrusion to establish the measurement on the scale.





VARIABLE NO. 50-FOOT EREADIH, HORIZONIAL

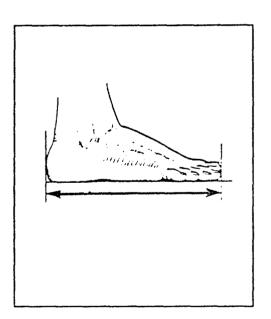
### FEMALES

THE SUM	Mary Stati	ISTICS INCHES	THE SUMMARY STATI	STICS INCHES
		1114111		11.GILD
9.04	MEAN	3.55	10.01 MEAN	3.94
	SE (MEAN)			
	ST DEV		0.02 SE (MEAN) 0.48 ST DEV	0.19
0.02	SE (SD)	0.01	0.02 SE(SD)	0.01
7.60	MINIMUM	2.99	8.50 MINIMUM	3.35
10.40	MAXIMUM	4.09	11.40 MAXIMUM	4.49
COEFF. OF	יאסדייימ דקומיז	A 9%	COEFF. OF VARIATION	4.8%
SYMMETRY-		0.19	SYMMETRY——VETA I	
KURTOSIS-		3.01		
VOKTOSTS	VEIA II	3.01	KURTOSISVETA II	2.71
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS	487
			***	
r	ERCENTILES	2	THE DOTE NATIONAL TO THE	•
CENTIMETE		INCHES	PERCENTILES CENTIMETERS	INCHES
CENTINGTE	TC .	דווידונים	CENTIMETERS	INCRES
8.06	ist	3.17	9.03 1ST	3.56
8.18	2ND	3.22	9.11 2ND	3.59
8.25	3RD	3.25	9.17 3RD	3.61
8.34	5TH	3.29	9.25 5TH	3.64
8.49	10TH	3.34	9.39 10TH	3.70
8.59	15TH	3.38	9.50 15TH	3.74
8.67	20TH	3.41	9.58 20IH	3.77
8.74	25TH	3.44	9.66 25TH	3.80
8.80	30TH	3.47	9.73 30TH	3.83
8.86	35TH	3.49	9.80 35TH	
8.92	40TH	3.51	9.87 40TH	3.88
8.97	45TH	3.53	9.93 45TH	
9.02	50TH	3.55	10.00 50TH	3.94
9.08	55TH	3.57	10.06 55TH	
9.14	60TH	3,60	10.13 60TH	3.99
9.20	65TH	3.62	10.19 65TH	4.01
9.26	70TH	3.65	10.27 70TH	
9.33	75TH	3.67	10.27 7011 10.34 75TH	4.07
9.41	80TH	3.70	10.34 751H 10.43 80TH	
9.50	85TH	3.74	10.43 85TH	4.11
9.62	90TH	3.79		4.14
			10.65 90TH	
9.81	95TH	3.86	10.81 95TH	
9.93	97TH	3.91	10.91 97TH	4.29
10.02	98TH	3.95	10.97 98TH	4.32
10.17	99TH	4.00	11.07 99TH	4.36

#### (51) FOOT LENGTH

The maximum length of the right foot is measured on a footbox scale. The subject stands with each foot in a footbox and the weight distributed equally on both feet. The heel of the right foot lightly touches the back of the box, and the side of the foot at the fifth-metatarsophalangeal-protrusion landmark lightly touches the side of the box. The medial side of the foot is parallel to the long axis of the box. A block is placed against the tip of the longest toe to establish the measurement on the scale.





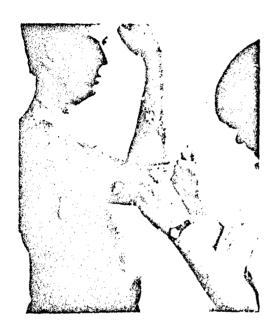
#### VARIABLE NO. 51-FOOT LENGTH

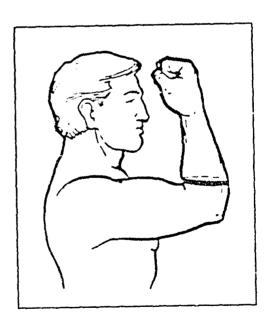
#### FEMALES

THE SUM	MARY STATI	STTCS	THE SUMMARY STAT	TSTTCS
CENTIMETE		INCHES	CENTIMETERS	INCHES
24.78	MEAN	9.76	26.85 MEAN	10.57
	SE (MEAN)	0.02	0.05 SE(MEAN)	
	ST DEV	0.37	1.18 ST DEV	
0.04	SE(SD)	0.01	0.04 SE(SD)	
0.0.	02(02)	0,07	010. 55(55)	0.07
22.60	MINIMUM	3.90	23.50 MINIMUM	9.25
	MAXIMUM		31.10 MAXIMUM	
COEFF. OF	VARIATION	3.8%	COEFF. OF VARIATION	4.4%
SYMMETRY-		0.27	SYMMETRY—VETA I	
KURTOSIS-	VETA II	2.75	KURTOSISVETA II	3.09
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS	487
			_	
F	PERCENTILES	3	PERCENULLE	S
CENTIMETE	TRS	IN ES	CENTIMETERS	INCHES
22.80	ist	8.98	24.15 1ST	9.51
23.02	2ND	9.06	24.47 2ND	9.63
23.15	3RD	9.11	<b>24.67</b> 3RD	9.71
23.33	5TH	9.18	24.94 5TH	9.82
23.60	10TH	9.29	25.35 10TH	9.98
23.80	15TH	9.37	25.63 15TH	10.09
23.95	20TH	9.43	25.85 20TH	10.18
24.10	25TH	9.49	26.04 25TH	10.25
24.23	301H	9.54	26.22 30TH	10.32
24.35	35TH	9.59	26.37 35TH	10.38
24.47	40TH	9.64	26.53 40TH	10.44
24.59	45TH	9.68	26.67 45TH	10.50
24.72	50TH	9.73	26.82 50TH	10.56
24.84	55TH	9.78	26.97 55TH	10.62
24.97	60TH	9.83	27.12 60TH	
25.10	65TH	9.88	27.27 65TH	10.74
25.25	7014	9.94	27.44 70TH	10.80
25.41	75TH	10.00	27.62 75TH	10.87
25.59	HT08	10.07	27.82 80TH	10.95
25.80	85TH	10.16	28.06 85TH	11.05
26.06	90TH	10.26	28.37 90TH	11.17
26.44	95TH	10.41	28.84 95TH	
26.67	97TH	10.50	29.15 97TH	
26.83	98TH	10.56	29.39 98TH	11.57
27.05	99TH	10.65	29.77 99TH	11.72
2,100		20.00	23.11	-4016

#### (52) FORFARM CURCUMFERENCE, FLEXED

The circumference of the flexed right forearm is measured with a tape passing across the crease at the juncture between the upper arm and the forearm. The measurement is made in a plane perpendicular to the long axis of the forearm. The subject stands with the upper arm extended forward horizontally, the elbow flexed 90 degrees, and the fist tightly clenched and held facing the head.



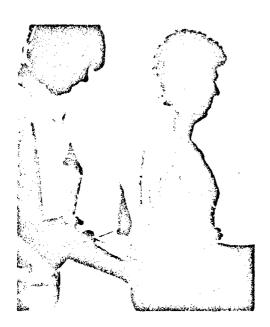


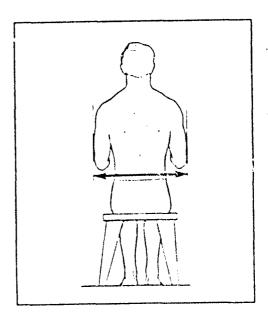
VARIABLE NO. 52—FCREARM CIRCUMFERENCE, FLEXED
FEMALES MALES

THE SUM	Mary Stat	ISTICS	THE ST	JMMARY STATI	STICS
CENTIMETE	RS	INCHES	CENTIME		INCHES
25 46	MEAN	10.02	30.00	) MEAN	11 01
0.08					
	ST DEV	0.59	0.08	SE (MEAN)	
0.06		0.59	1.63		0.66
0.110	SE(SU)	0.02	0.09	SE(SD)	0.02
	MINIMUM		25.10	MINIMUM C	9.88
32.50	MAXIMUM	12.80	36.00	MUMIXAM C	14.17
COEFF. OF	VARIATION	5.9%	COEFF. O	VARIATION	5.6%
SYMMETRY-				VETA I	
KURTOSIS	VETA II			VETA II	3.14
				1211 12	3141
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
***************************************		-			-
	ERCENTILE	5		PERCENTILES	;
CENTIMETE	RS	INCHES	CENTIME	TERS	INCHES
22.03	ıst	8.67	26.07	ı ist	10.26
22.47	2ND	8.85	26.53		
22.74	3RD	8.95	26.95		
23.10	5TH	9.09	27.36		
23.62	10111	9.30	27.95		11.00
23.96	15TH	9.43	28.33		
24.23	201H	9.54	28.62		11.27
24.46	25TH	9.63	28.98	25'IH	11.37
24.67	30TH	9.71	29.11		
24.86	35TH	9.79	29.32		11.54
25.04	40TH	9.86	29.52		
25.22	45TH	9.93	29.72		11.70
25.40	50TH	10.00	29.93		11.78
25.57	55 <b>TH</b>	10.07	30.13		
25.76	601H	10.14	30.34		
25.95	65111	10.22			11.95
26.15	70IH	10.22	30.56		
26.38	75TH		30.80		12.13
		10.38	31.06		12.23
26.63	HTO8	10.49	31.36		
26.94	85TH	10.61	31.72		12.49
27.34	90TH	10.76	32.17		
27.97	95 <b>TH</b>		32.8€		12.94
28.40	97711	11.18	33.31		13.11
23.74	981H	11.31	32.63		
29.28	99TH	11.53	34.13	991H	13.44

#### (53) FOREARM-FOREARM EREADIH

The maximum horizontal distance across the upper body between the outer sides of the forearms is measured with a beam caliper. The subject sits erect looking straight ahead. The shoulders and upper arms are relaxed and the forearms and hands are extended forward horizontally with the palms facing each other. The measurement is taken at the maximum point of quiet respiration.





VARIABLE NO. 53-FOREARM-FOREARM BREADIH

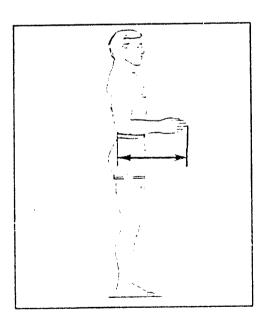
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			<del>-</del>		
THE SUM	Mary Stati	STICS INCHES	THE S CENTIME	UMMARY STATIS	STICS INCHES
CENTIFICAL		Thans	CENTIFIE		HACTRES
48.03				9 MEAN	
	SE (MEAN)			8 S.E (MEAN)	0.07
3.59	ST DEV	1.42	3.9	1 ST DEV	1.54
0.14	SE(SD)	0.05	0.1		
0.11	02(00)	0.03	<b>0.2</b>	02(00)	0.03
	MINIMUM		44.6		
60.70	MAXIMUM	23.90	71.1	O MAXIMUM	27.99
COEFF. OF SYMMETRY—	VARIATION	7.5%	COEFF. C	F VARIATION	7.0%
SYMMETRY	VETA I	0.22	SYMMETRY	VETA I	0.29
KURTOSIS		3.58	KURTOSIS	VETA II	3.52
NUMBER OF	SUBJECTS	334	NUMBER C	F SUBJECTS	487
T-				Denomanne po	
	PERCENTILES			PERCENTILES	
CENTIMETE	RS	INCHES	CENTIME	TERS .	INCHES
38.92	1ST	15.32	47.2	2 1ST	18.59
40.51	2ND	15.95	47.8	1 2ND	18.82
41.38	3RD	16.29	48.3		19.02
42.42	5TH	16.70	49.1		19.33
43.78	10114	17.24	50.4		19.87
	2010	17.24		r tum	
44.60	15TH	17.56	51.4		20.26
45.20	20TH	17.80	52.2		20.57
45.72	25TH	18.00	52.9	1 25TH	20.83
46.18	30TH	18.18	53.5	0 30TH	21.06
46.60	35TH	18.35	54.0		21.28
47.01	40TH	18.51	54.5		21.48
47.41	45TH	18.67	55.0		21.66
47.82	50TH	18.83	55.4		21.85
48.24	55TH	18.99	55.9	5 55TH	22.03
48.67	601H	19.16	56.4	1 60TH	22.21
49.14	65TH	19.35	56.8	8 65TH	22.39
49.64	70TH	19.54	57.3	7. 70TH	22.59
50.21	75TH	19.77	57.9		22.80
50.87	HTOS	20.03	58.5		23.04
51.66	85TH	20.34	59.2		23.33
52.70	90TH	20 .5	60.2	6 90TH	23.72
54.28	95TH	21.37	61.9	9 95TH	24.41
55.32	97TH	21.78	63.3	5 97TH	24.94
56.07	98TH	22.08	64.5		25.39
57.21	99TH	22.52	66.6	55 99TH	26.24

# (54) FOREARM-HAND LENGIH

The horizontal distance between the back of the tip of the right elbow to the tip of the right middle finger is measured with a beam caliper. The subject stands erect with the upper arms hanging at the sides and the right elbow flexed 90 degrees. The hand is held out straight with the palm facing inward.





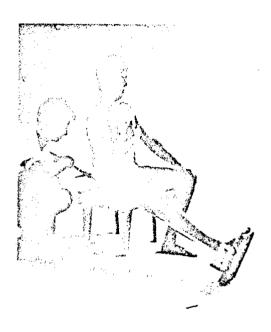
# VARIABLE NO. 54—FOREARY HAND LENGTH

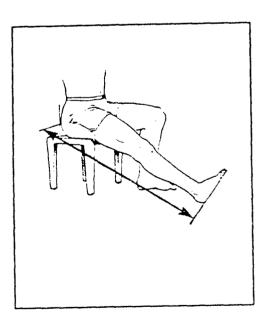
### FEMALES

			· · · · · · · · · · · · · · · · · · ·			
	Mary Stat	ISTICS	THE SUMM	TARY STAT	ISTICS	
CENTIMETE	IRS .	INCHES	CENTIMETER		INCHES	
				_	2110112	
44.91	MEAN	17.68	48.40	MEAN	10.05	
0.08	SE (MEAN)	0.03	0.09		19.05	
1.41	ST DEV	0.56	· · · · ·	SE (MEAN)	0.04	
0.05	SE(SD)		2.01	ST DEV	0.79	
0.03	SE (SD)	0.02	0.06	SE(SD)	0.03	
41.90	MINIMUM	16.50	42.50	MINITARINA	3.5 70	
51.20	MAXIMUM	20.16		MINIMUM		
31.20	I.M.D.TT.JOLI	20.10	54.50	MAXIMUM	21.46	
COEFF. OF		3.1%	COEFF. OF V	ARIATION	4.2%	
SYMMETRY	VETA I	0.78	SYMMETRY			
KURIOSIS	VETA II	3.79	KURTOSIS-		2.78	
			20020	ATIM TI	2.10	
NUMBER OF	SUBJECTS	334	NUMBER OF S	PETERIT	487	
				OZC.LCID	407	
_				<del></del>		_
	ERCENTILES		PE	RCENTILES	3	
CENTIMETE	RS	INCHES	CENTIMETER	S	INCHES	
			•			
42.34	1ST	16.67	44.19	1ST	17.40	
42.68	2ND	16.80	44.53	2ND	17.53	
42.86	3RD	16.87	44.78	3RD	17.63	
43.07	5TH	16.95	45.16	57H		
43.36	1011	17.07	45.80		17.78	
43.56	15TH	17.15		10TH	18.03	
43.73	201H	17.22	46.26	15TH	18.21	
43.89	25TH		46.64	20TH	18.36	
44.05		17.28	46.97	25TH	18.49	
	30TH	17.34	47.28	30TH	18.61	
44.20	35TH	17.40	47.56	35TH	18.72	
44.35	40TH	17.46	47.83	40TH	18.83	
44.52	45TH	17.53	48.10	45TH	18.94	
44.63	50TH	17.59	48.36	501H	19.04	
44.85	55TH	17.66	48.62	55TH	19.14	
45.05	60TH	17.74	48.62	60TH	19.25	
45.26	65TH	17.82	49.16	65TH	-	
45.49	70TH	17.91	49.45		19.35	
45.75	75TH	18.01		70TH	19.47	
46.05	80TH	18.13	49.76	75TH	19.59	
46.40	85TH		50.11	HI08	19.73	
46.87		18.27	50.51	85TH	19.89	
	90TH	18.45	51.02	90TH	20.09	
47.53	95TH	18.71	51.77	95TH	20.38	
47.94	97TH	18.87	52.25	97TH	20.57	
48.21	98TH	18.98	52.62	98TH	20.72	
48.56		10 10			40.72	
40.30	99TH	19.12	53.20	99TH	20.94	

#### (55) FUNCTIONAL LEG LENGTH

The straight-line distance between the plane of the bottom of the right foot with the leg extended and the back of the body of a seated subject is measured with an anthropometer passing over the trochanter landmark on the side of the hip. The subject sits erect on a stool 40.8 cm high. The right leg is extended and the foot is on the base plate of the anthropometer, which rests on the floor. The measurement is made from the footrest surface of the base plate.





# VARIABLE NO. 55—FUNCTIONAL LEG LENGIH

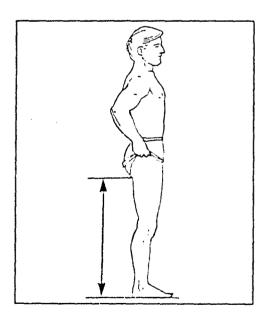
# FEMALES

			<del>-</del>		
THE SUM	MARY STATI	STICS INCHES	THE SUMM CENTIMETER	ARY STATISTICS S INCHES	,
CEMITMETE	T.C.	TIACUES	CENTIFIETER	5 IIVCRES	,
103.80	MEAN	40.87	108.73		
0.18	SE (MEAN)	0.07	0.21	SE(MEAN) 0.08	,
3.27	ST DEV	1.29	4.71	ST DEV 1.85	j
0.13	SE(SD)	0.05	0.15	SE(SD) 0.06	j
	• •				
96.00	MINIMUM	37.80	*	MINIMUM 38.62	
115.20	MAXIMUM	45.35	122.50	MAXIMUM 48.23	ļ
COEFF. OF		3.2%	COEFF. OF V	ARIATION 9.7%	5
SYMMETRY-	VETA I	0.48	SYMMETRY	-VETA I 0.00	)
KURTOSIS	VETA II	3.14	KURTOSIS	-VETA II 3.00	)
NUMBER OF	SUBJECTS	334	NUMBER OF S	UBJECTS 486	5
	PERCENTILES			RCENTILES	_
CENTIMETE	IRS .	INCHES	CENTIMETER	S INCHES	;
96.84	1ST	38.12	98.97	1ST 38.96	5
97.82	SND	38.51	99.77	2ND 39.28	3
98.36	3RD	38.72	100.35	3RD 39.51	L
99.01	5TH	38.98	101.19	5TH 39.84	ļ
99.93	101H	39.34	102.62	10TH 40.40	)
100.52	15TH	39.58	103.67	15TH 40.82	2
101.00	20TH	39.77	104.54	20TH 41.16	-
101.44	25TH	39.94	105.32	25TH 41.46	
101.84	30TH	40.09	106.03	30TH 41.75	
102.23	35TH	40.25	106.03	35TH 42.01	
102.61	40TH	40.40	107.35	40TH 42.26	
103.00	45TH	40.55	107.98	45TH 42.51	
103.40	50TH	40.71	108.61	50TH 42.76	
103.82	55T <b>H</b>	40.87	109.25	55TH 43.01	
104.26	60TH	41.05	109.90	60TH 43.27	7
104.73	65TH	41.23	110.57	65TH 43.53	3
105.25	70TH	41.44	111.27	70TH 43.81	Ĺ
105.82	75TH	41.66	112.04	75TH 44.13	L
106.48	80TH	41.92	112.89	80TH 44.44	
107.25	85TH	42.22	113.86	85TH 44.83	
108.24	90IH	42.61	115.06	90TH 45.30	
109.66	95TH	43.17	116.77	95TH 45.97	
		43.17			
110.50	97TH		117.82	97TH 46.39	
111.06	98TH	43.72	118.55	98TH 46.67	
111.79	99TH	44.01	119.62	99TH 47.10	)

# (56) GIUTEAL FURROW HEIGHT

The vertical distance between a standing surface and the lowest point of the gluteal furrow(s) under the right buttock is measured with an anthropometer. The subject stands erect with the heels together and the weight distributed equally on both feet.





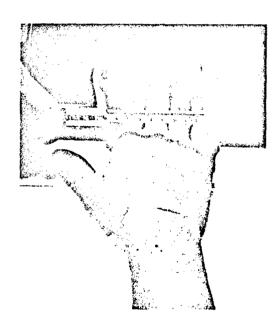
# VARIABLE NO. 56-GIUTEAL FURROW HEIGHT

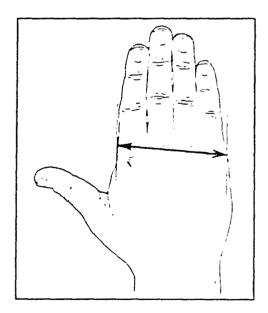
# FEMALES

	<del></del>		·• ————————————————————————————————————	<del></del>	
THE SUM	Mary Stati RS	STICS INCHES	THE CENTIM	SUMMARY STAT ETERS	ISTICS INCHES
76.35	MEAN	30.06	81.	37 MEAN	32.03
	SE (MEAN)	0.06		19 SE (MEAN)	
	ST DEV	1.12		12 ST DEV	
0.11	SE(SD)	0.04		13 SE(SD)	0.05
0.11	OB (OD)	0.01	0.	15 01 (00)	0.05
69.90	MINIMUM	27.52	71.	50 MINIMUM	28.15
87.50	MAXIMUM	34.45		MUMIXAM 06	36.34
COEFF. OF	νοτπατααν	3.7%	<b>OFF</b>	OF VARIATION	5.1%
SYMMETRY—		0.68		YVETA I	
KURIOSIS		3.52		SVETA II	
IOM COTO	VLIA II	3.52	NDK1031	SVEIR II	2.70
NUMBER OF	SUBJECTS	334	NUMBER	OF SUBJECTS	487
		<del></del>			
	יים ד'ו דווא אינטייערייםוי			TOTAL TOTAL T	<b>~</b>
	ERCENTILES		CT 1	PERCENTILE	-
CENTIMETE	TC2	INCHES	CENTIM	ETERS	INCHES
71.22	1ST	28.04	73.	15 1ST	28.80
71.69	2ND	28.23	73.	72 2ND	29.02
71.99	3RD	28.34	74.	17 3RD	29.20
72.40	5TH	28.50	74.	85 5TH	29.47
73.07	101H	28.77	76.		
73.55	15TH	28.96	76.		
73.95	201H	29.11	77.		
74.32	25TH	29.26	78.		
74.66		29.39	78.		
75.00	35TH	29.53	70. 79.		
75.32	40TH	29.66	80.		
75.66	45TH	29.79			
			80.		
76.00	50TH	29.92	81.		
76.35	55TH	30.06	81.		
76.72	60TH	30.21	82.		
77.12	65TH	30.36	82.		
77.56	70TH	30.54	83.		32.86
78.05	75TH	30.73	84.	12 75TH	33.12
78.62	HT08	30.95	84.		33.41
79.32	85 <b>TH</b>	31.23	85.	72 85TH	33.75
80.24	90TH	31.59	86.	82 90TH	34.18
81.69	95TH	32.16	88.		
82.67	97TH	32.55	89.		
83.42	HT86	32.84	90.		
84.63	99TH	33.32	91.		36.10
01.00	2224		21.	, 5 55111	20170

#### (57) HAND BREADIH

The breadth of the right hand between the landmarks at metacarpale II and metacarpale V is measured with a sliding caliper. The subject places the palm on a table, the fingers together and the thumb abducted. The middle finger is parallel to the long axis of the forearm. The two distal phalanges of the fingers lie on a flat surface 8 mm higher than the table.





# VARIABLE NO. 57—HAND EREADIH

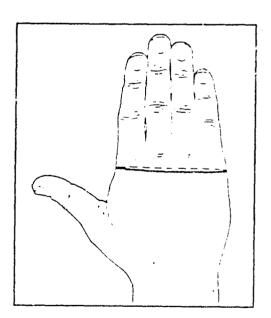
# FEMALES

<del></del>					
	Mary Stati		THE SU	MMARY STAT	ISTICS
CENTIMETE	IRS .	INCHES	CENTIMET	ERS	INCHES
0.04					
8.04			9.02		3.55
	SE (MEAN)		0.02		0.01
	ST DEV	0.14	0.39	ST DEV	0.15
0.01	SE(SD)	0.01	0.01	SE (SD)	0.00
7 20	MINIMUM	2 62			
	MAXIMUM	2.03 3.78		MUNIMUM	
9.00	MAXIMM	3.78	10.20	MAXIMUM	4.02
COEFF. OF	VARIATION	4.4%	COEFF. OF	VARTATT(.1	4.3%
SYMMETRY-		0.45	SYMMETRY-		
KURTOSIS-	VETA II	3.64		VETA II	2.94
177					
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
	<del></del>	——————————————————————————————————————			
P	ERCENTILES		ī	PERCENTILES	•
CENTIMETE	RS	INCHES	CENTIMETE		INCHES
					TACHES
7.36	ist	2.90	8.17	1ST	3.22
7.39	2ND	2.91	8.23	2ND	3.24
7.42	3RD	2.92	8.28	3RD	3.26
7.47	5TH	2.94	8.36	5TH	3.29
7.58	10TH	2.98	8.50	10TH	3.35
7.66	15TH	3.02	8.60	15TH	3.39
7.73	20TH	3.04	8.68	20TH	3.42
7.79	25TH	3.07	8.75	25TH	3.45
7.84	30TH	3.09	8.81	30TH	3.45
7.89	35TH	3.11	8.87		
7.94	40TH	3.13		35TH	3.49
7.98	45TH	3.14	8.92	40TH	3.51
8.03	50TH	3.14	8.98	45TH	3.53
8.07			9.03	50TH	3.55
	55TH	3.18	9.07	55TH	3.57
8.12	60TH	3.20	9.12	60TH	3.59
8.16	65TH	3.21	9.17	65TH	3.61
8.21	70TH	3.23	9.23	70TH	3.63
8.26	75TH	3.25	9.28	75TH	3.66
8.32	HTOS	3.28	9.35	80TH	3.68
8.39	85TH	3.30	9.42	85TH	3.71
8.48	90TH	3.34	9,52	90TH	3.75
8.62	95TH	3.39	. ,67	95TH	3.81
8.73	97TH	3.44	9.79	97TH	3.85
8.81	98TH	3.47	9.88	971H 98TH	
8.96	99TH	3.53	10.05	981H 99TH	3.89
		J.J.	10.05	אזגנ	3.96

### (58) HAND CIRCUMFERENCE

The circumference of the right hand is measured with a tape passing over the landmarks at metacarpale II and metacarpale V. The subject places the palm on a table, the fingers together, and the thumb abducted. The middle finger is parallel to the long axis of the forearm. The two distal phalanges of the fingers lie on a flat surface 8 mm higher than the table.





# VARIABLE NO. 58-HAND CIRCUMFERENCE

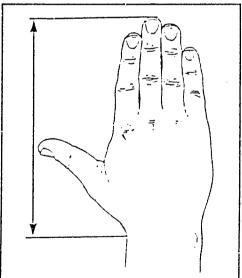
# FEMALES

ייטור כיווע	mary stati	· cour <i>c</i> c	mure enim	Mary Stati	em ce
CENTIMETE		INCHES	CENTIMETE		INCHES
CENTIMETE	rs.	HACKES	CENTIMETE	<i>.</i> CO	TACTES
18.82	MEAN	7.41	21.42	MEAN	8.43
	SE (MEAN)				
		0.31	0.89	SE (MEAN) ST DEV SE (SD)	0.35
0.03	ST DEV SE(SD)	0.01	0.03	SE(SD)	0.01
	, ,			,,	
17.20	MUNIMUM	6.77		MUNIMUM	
21.90	MAXIMUM	8.62	24.10	MAXIMUM	9.49
COEFF. OF	VARIATION	4.1%	COEFF. OF	VARTATION	4.1%
SYMMETRY-		0.43	SYMMETRY-		
	VETA II	3.40	KURIOSIS-		3.07
131123323			30.0020		,000
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
I	PERCENTILES	5		FRCENTILES	;
CENTIMETE	irs .	INCHES	CENTIMETE	RS	INCHES
17.28	1077	6.80	19.40	ıst	7.64
17.28	2ND		19.40		
17.47	3RD	6.83	19.75	2ND 3RD	7.78
17.60	5TH	6.93	19.75	5TH	7.76
17.84	1011	<del>-</del> -	20.28	10TH	
18.01	15TH		20.28	15TH	
18.15	201H	7.14	20.50		
18.27	25TH	7.19		20TH 25TH	8.20
18.39	30TH		20.82	20111	8.25
		7.24	20.96		0.20
18.49	35TH		21.08		
18.59	40TH	7.32	21.19		
18.69	45TH	7.36	21.30	45TH	8.39
18.79	50TH	7.40	21.41	501H	8.43
18.89	55TH	7.44	21.52	55TH 60TH	8.47
18.99	601H	7.48	21.63		
19.09	65TH	7.52	21.74	65TH	
19.20	70TH	7.56	21.86	70IH	8.61
19.32	75TH	7.61	21.99	75 <b>TH</b>	
19.46	HTOS	7.66	22.13	801H	8.71
19.61	85TH	7.72	22.31	85TH	<b>8.</b> 78
19.82	90TH	7.80	22.54	90TH	8.87
20.13	95TH	7.92	22.91	95 <b>TH</b>	
20.34	97TH	8.01	23.18	97 <b>T</b> H	9.13
20.51	98TH	8.07	23.40	98TH	9.21
20.78	99TH	8.18	23.78	99 <b>TH</b>	9.36

### (59) HAND LENGTH

The length of the right hand between the stylion landmark on the wrist and the tip of the middle finger is measured with a Frech sliding caliper. The subject places the palm on a table, the fingers together, and the thumb abducted. The middle finger is parallel to the long axis of the forearm. The two distal phalanges of the fingers lie on a flat surface 8 mm higher than the table.





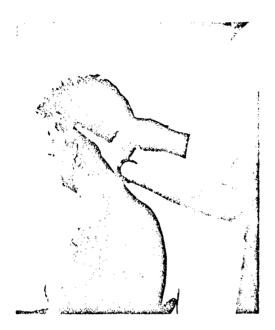
### VARIABLE NO. 59—HAND LENGTH

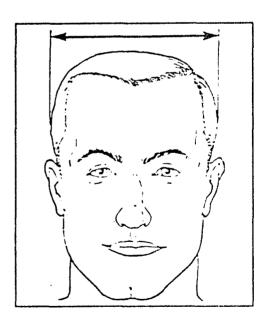
# FEMALES

THE SUM	Mary Stati RS	ISTICS INCHES		THE SUMM	ary stati s	ISTICS INCHES
18.25	MEAN	7.18		19.45	MEAN	7.66
0.04	SE (MEAN)	0.02		0.04	SE (MEAN)	0.02
0.71	ST DEV	0.28		0.85	ST DEV	0.33
0.03	SE(SD)	0.01		0.03	SE(SD)	0.01
16 20	MINIMUM	6.42		16.80	MINIMUM	6.61
	MAXIMUM	8.46			MAXIMUM	8.58
21.50	MALMON	0.40		23.00	MALINON	0.50
COEFF. OF					ARIATION	
SYMMETRY-		0.55		METRY		
KURIOSIS	VETA II	4.01	KUR	TOSIS	-VETA II	2.84
NUMBER OF	SUBJECTS	334	NUM	BER OF S	UBJECTS	487
F	ERCENTILE	5	•	PE	RCENTILES	3
CENTIMETE	IRS	INCHES	CE	NUMETER	S	INCHES
16.74	1ST	6.59		17.61	1ST	6.93
16.92	2ND	6.66	•	17.80	2ND	7.01
17.03	3RD	6.70		17.93	3RD	7.06
17.17	5TH	6.76		18.10	5TH	7.13
17.38	10TH	6.84		18.37	10TH	7.23
17.53	15TH	6.90		18.56	15TH	7.31
17.65	20TH	6.95	•	18.72	201H	7.37
17.75	25TH	6.99		18.86	25TH	7.42
17.84	30TH	7.03		18.98	301H	7.47
17.93	35TH	7.06		19.10	35TH	7.52
18.02	40TH	7.09		19.21	40TH	7.56
18.10	45TH	7.13		19.32	45TH	7.61
18.19	50TH	7.16		19.43	50TH	7.65
18.28	55TH	7.20		19.54	55TH	7.69
18.37	60TH	7.23		19.66	6CTH	7.74
18.46	65TH	7.27		19.77	65TH	7.79
18.57	70TH	7.31		19.90	70TH	7.83
18.68	75TH	7.36		20.04	75TH	7.89
18.82	801H	7.41		20.19	HI08	7.95
18.97	85TH	7.47		20.36	85TH	8.02
19.18	90TH	7.55		20.58	90TH	8.10
19.49	95TH	7.67		20.89	95TH	8.22
19.71	97TH	7.76		21.08	97TH	8.30
19.86	98TH	7.82		21.21	98TH	8.35
20.11	99TH	7.92		21.40	99TH	

# (60) HEAD BREADIH

The maximum horizontal breadth of the head above the attachment of the ears is measured with a spreading caliper.





# VARIABLE NO. 60—HEAD EREADTH

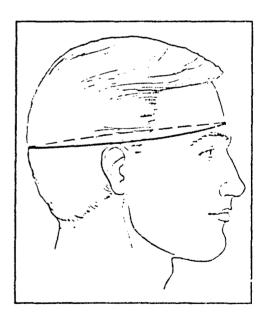
# FEMALES

THE SIM	MARY STAT	Temres		
CENTIMETE			THE SUMMARY STAT	
CHATTIETE.	r.o	INCHES	THE SUMMARY STATE CENTIMETERS	INCHES
14.51	MEAN	5.71	15.33 MEAN	6.04
0.03	SE (MEAN)	0.01	0.02 SE(MEAN)	
0.48	ST DEV	0.19		
	SE (SD)		0.53 ST DEV 0.02 SE(SD)	0.21
0.02	טב (טט)	0.01	0.02 SE(SD)	0.01
	MUNIMUM	5.08	14.00 MINIMUM	5.51
16.70	MAXIMUM	6.57	17.10 MAXIMUM	
COPPER OF A	'''			
COEFF. OF	VARIATION		COEFF. OF VARIATION	3.5%
SYMMETRY—		0.28	SYMMETRYVETA I	0.35
KURIOSIS	VETA II	4.48	KURIOSIS—VETA II	3.15
NUMBER OF S	STIRTE COS	224	ATTOWN ATT COMPANY	
HOLDIAC OF L	SOMECIS	334	NUMBER OF SUBJECTS	487
	RCENTILES	_	PERCENTILES	5
CENTIMETE	&	INCHES	CENTIMETERS	INCHES
13.32	1ST	<b>-</b> 2-		
13.53	2ND			5.59
		5.33	14.33 2ND	5.64
13.65	3RD	5.37	14.41 3RD	5.67
13.78	5TH	5.43	14.52 5TH	5.72
13.96	10TH	5.50	14.69 10TH	5.78
14.07	15TH	5.54	14.80 15TH	5.83
14.15	201H	5.57	14.89 20TH	5.86
14.21	25TH	5.60	14.97 25TH	5.89
14.27	30TH	5.62	15.04 30TH	5.92
14.33	35TH	5.64	15.11 35TH	5.95
14.38	40TH	5.66		
14.44	45TH	5.68		5.97
14.49	50TH	5.70		6.00
14.54	55TH	5.73	15.30 50TH	6.02
14.60	60TH		15.36 55TH	6.05
14.66		5.75	15.43 60TH	6.07
	65TH	5.77	<b>15.50</b> 65TH	6.10
14.73	70TH	5.80	15.58 70TH	6.13
14.80	75TH	5.83	<b>15.66</b> 75TH	6.17
14.88	HI08	5.86	15.76 80TH	6.20
14.93	85TH	5.90	15.87 85TH	6.25
15.11	90TH	5.95	16.03 90TH	6.31
15.30	95TH	6.03	16.27 95TH	
15.42	97TH	6.07		6.40
15.51	98TH	6.11		6.47
15.63	99TH	6.15	16.55 95TH	6.51
	J J 111	0.13	16.74 99TH	6.59

# (61) HEAD CIRCUMPERENCE

The maximum circumference of the head above the attachment of the ears to the head is measured with a tape passing just above the ridges of the eyebrows and around the back of the head.





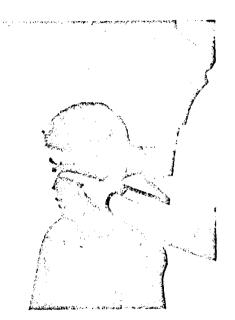
# VARIABLE NO. 61—HEAD CIRCUFERENCE

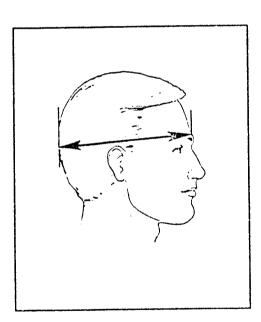
# FEMALES

THE SUMM	ARV STAT	rsmes	THE SUMMARY STATE	com'oo
CENTIMETER		INCHES		
	<b>.</b>	mana	CENTIMETERS	INCHES
54.79	MEAN	21.57	57 AC 187311	00 4=
	SE (MEAN)		57.06 MEAN	
1.33	ST DEV		0.06 SE(MEAN)	0.02
		0.52	1.36 ST DEV	0.53
0.05	SE(SD)	0.02	0.04 SE(SD)	0.02
50 50 T		10.00		
	MUMINIMUM		53.60 MINIMUM	
58.70	MINITIXAM	23.11	60.60 MAXIMUM	23.86
COEFF. OF V	ADTAMTOM	0.40		
SYMMETRY——			COEFF. OF VARIATION	
		-0.22	SYMMETRY—VETA I	
KURTOSIS	-veta 11	3.37	KURTOSISVETA II	2.61
MIMDED OF O	TT2 TT2~CT2~	201		
NUMBER OF ST	DEFECTS	334	JUMBER OF SUBJECTS	487
			**	*****
THE	RCENTILES	,		
CENTIMETERS			PERCENTILES	
CHALLESTER	•	INCHES	CENTIMETERS	INCHES
51.15	1ST	20.14	54.10	
51.75	2ND	20.14	54.10 1ST	
52.09		20.57	54.35 2ND	
52.51	51H	20.51	54.54 3RD	
53.09	10TH	20.90	54.81 5TH	
53.45	15TH		55.28 10IH	21.76
53.72		21.04	55.61 15TH	21.89
	20TH	21.15	55.88 20TH	
53.95	25TH	21.24	56.12 25TH	22.10
54.15	30TH	21.32	56.34 30TH	22.18
54.33	35TH	21.39	56.53 35 <u>TH</u>	22.26
54.50	40TH	21.46	56.72 40TH	22.33
54.67	45TH	21.52	56.90 45TH	22.40
54.83	50TH	21.59	57.08 50TH	22.47
54.99	55TH	21.65	57.26 55TH	
55.15	60TH	21.71	57.44 60TH	22.61
55.32	65TH	21.78	57.62 65TH	
55.50	70TH	21.85	57.81 70TH	22.76
55.69	75TH	21.92	58.01 75TH	22.76
55.90	HI08	22.01		
56.14	85TH	22.10		22.93
56.43	901H	22.22		23.03
56.84	95TH	22.38	58.82 90TH	
57.08	97TH		59.30 95TH	23,35
57.08 57.24		22.47	59.62 97TH	23.47
	98TH	22.54	59.85 98TH	23.56
57.45	99TH	22.62	60.24 99TH	23.72

# (62) HEAD LENGTH

The distance from the glabella landmark between the brownidges to the most posterior point on the back of the head is measured with a spreading caliper.





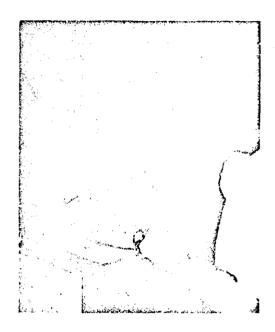
# VARIABLE NO. 62—HEAD LENGTH

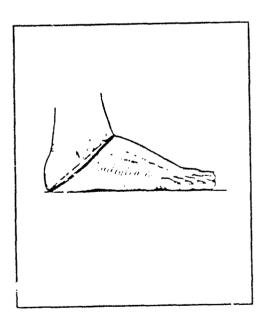
# FEMALES

		<del></del>	**************************************	<del></del>	
THE SUMMARY CENTIMETERS				MMARY STAT	
CENTIMETERS	11.	ICHES	CENTIMET	ERS	INCHES
18.82 M	EAN	7.41	19.89	MEAN	7.83
0.04 SE(N	ŒAN)	0.01	0.03		
	-	0.25	0.64		0.01
0.02 SE	(SD)	0.01	0.02		0.23
	•		0.02	CE(CE)	0.01
16.50 MIN		6.50	17.70	MINIMUM	6.97
20.50 MAXI	MUM	8.07	21.90	MAXIMUM	8.62
COEFF. OF VARIA	WOIT!	3.4%	COEFF. OF	VARIATION	3 2%
SYMMETRYVET		0.34	SYMMETRY-		
KURICE ISVEI	A II	3.27	KURTOSIS-	VETA II	3.24
NUMBER OF SUBJE	CTS	334	NUMBER OF	SUBJECTS	487
	<del></del>	7.5			
PERCEN	TILES		τ.	PERCENTILES	•
CENTIMETERS	IN	CHES	CENTIMET		INCHES
			CLE 12 22 12 22	<b></b>	THOTHAS
		6.75	18.27	1ST	7.19
		6.83	18.51	2ND	7.29
		6.89	18.65	3RD	7.34
		6.96	18.83	5TH	7.41
		7.07	19.08	10TH	7.51
		7.14	19.25	15TH	7.58
		7.20	19.37	20TH	7.63
		7.25	19.48	25TH	7.67
		7.29	19.57	30TH	7.71
		7.33	19.66	35TH	7.74
		7.36	19.74	40TH	7.77
		7.39	19.82	45TH	7.80
		7.42	19.90	50TH	7.83
		7.46	19.97	55TH	7.86
		7.49	20.05	60TH	7.90
		7.52	20.14	65TH	7.93
		7.55	20.22	70TH	7.96
		7.58	20.32	75TH	8.00
		7.62	20.43	80TH	8.04
		7.66	20.55	85TH	8.09
		7.71	20.71	90TH	8.15
		7.79	20.94	95TH	8.24
	71H 7	7.85	21.08	97TH	8.30
	BTH 7	7.89	21.18	98TH	8.34
20.22 99	PTH 7	<b>'.</b> 96	21.34	99TH	8.40

### (63) HEEL ANKLE CIRCUMFERENCE

The circumference of the right foot at the ankle and base of the heel is measured with a tape passing over the point at which the heel first contacts the table and over the dorsal-juncture-of-the-foot-and-leg landmark at the front of the ankle. The subject stands with the feet about 10 cm apart and the weight distributed equally on both feet.





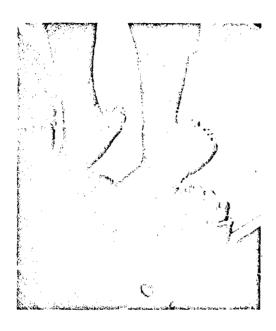
# VARIABLE NO. 63-HEEL ANKLE CIRCUMFERENCE

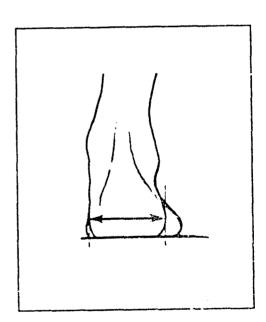
### FEMALES

	MARY STATI			SUMMARY STAT	TISTICS
CENTIMETE	RS	INCHES	CENTIL	METERS	INCHES
30.75	MEAN	12.10	33.	.70 MEAN	13.27
0.06	SE (MEAN)	0.03		07 SE (MEAN)	
1.18	SE (MEAN) ST DEV	0.47	•		~
	SE(SD)		7.	.46 ST DEV .05 SE(SD)	0.37
0.05	DE(OD)	0.02	0.	.05 SE(ED)	0.02
	MUNIMUM			MUMINIM 08.	
35.00	MAXIMUM	13.78	37.	.70 MAXIMUM	14.84
COEFF. OF	VARIATION	3.8%	COEFF.	OF VARIATION	I 4.3%
SYMMETRY-		0.34		YVETA	
KURTOSIS-	VETA II	3.18		SVETA I	
			1610.551	TO WELL	. 2.19
NUMBER OF	SUBJECTS	334	NUMBER	OF SUBJECTS	487
P	ERCENTILES	3		PERCENTILE	is .
CENTIMETE	RS	INCHES	CENTIM	ETERS	INCHES
28.19	1ST	11.10	30.	55 1ST	12.03
28.50	2ND	11.10 11.22	30.		
28.69	3KD	11.29	31.		
28.93	5TH	11.39	31.		
29.30	10TH	11.53		81 10TH	
29.54			32.		
29.74	201H	11.63 11.71	32.		
29.91	25TH	11.78			12.76
30.07	30TH	11.84			
30.22	35TH	11.90		88 30TH	
30.37	ACTIVI	11 06		08 35TH	
30.51	45TH	12.01		28 40TH	
30.66	401U	12.01	33.		
30.81	50TH	12.07	33.		
	55TH	12.13	33.		
30.97	60TH	12.19	34.		
31.13	65TH	12.26	34.		13.48
31.31	70TH	12.33	34.		
31.50	75TH	12.40	34.		13.66
31.72	HI08	12.49	34.	96 80 <i>1</i> H	13.76
31.98	85TH	12.59	35.		13.88
32.32	90TH	12.72	35.		
32.81	95TH	12.92	36.		
33.12	97TH	13.04	36.		
33.34	98TH	13.13	36.		
33.67	99TH	13.26	37.		14.70
		_~	37	22 221H	14.70

### (64) HEEL EREADIH

The maximum horizontal distance between the medial and lateral points on the inside and outside of the right heel, at or posterior to the lateral malleolus landmark, is measured with a Holtain caliper. The measurement is taken just above the level of the standing surface at the most protruding points of the curvature of the heel. The subject stands with the feet about 10 cm apart and the weight distributed equally on both feet.





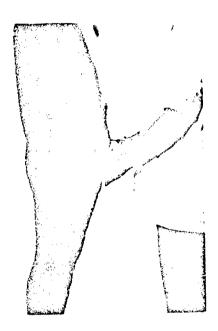
# VARIABLE NO. 64—HEEL ERFADIH

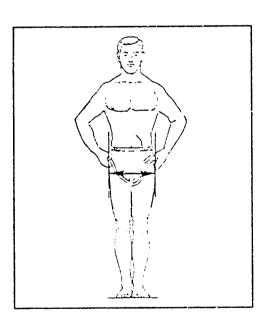
# FEMALES

THE SUN CENTIMETE	Mary Stati	ISTICS INCHES	THE SUMMARY STATE	
CLANTINITE	243	TIACUES	CENTIMETERS	INCHES
6,20	MEAN	2.44	£ 50	
0.02	SE (MEAN)	0.01	6.78 MEAN	
0.37	ST DEV	0.15	0.02 SE(MEAN)	
0.01		0.01	0.41 ST DEV	0.16
0.02	00(00)	0.01	0.01 SE(SD)	0.01
5.30	MINIMUM	2.09	5.50 MINIMUM	2.17
	MAXIMUM		8.10 MAXIMUM	
			O:10 NAAMON	3.19
COEFF. OF	VAPIATION .	6.0%	COEFF. OF VARIATION	6 12
SYMMETRY-	-VETA I	0.40	SYMMETRY—VETA I	
KURTOSIS	VETA II	3.14	KURTOSIS——VETA II	
			VIIII AI	3.21
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS	487
				407
		_		
	RCENTILES		PERCENITIES	
CENTIMETER	8	INCHES	CENTIMETERS	INCHES
5.42	1ST	2 12		
5.51	212		5.90 1ST	2.32
5.57		2.17	6.00 2ND	2.36
5.64	3KD 5TH	2.19	6.06 3RD	2.39
5.75	10TH	2.22	0.15 5TH	2.42
5.83	15TH	2.26	6.28 10TH	2.47
5.89	20111	2.29 2.33	6.37 15TH	2.51
5.94	25TH	د. ت. ت 2.34	6.44 20TH	2.53
5.99	251H 30TH		6.50 25TH	2.56
6.04	35TH	2.36 2.38	6.56 30TH	2.58
6.09	40TH	2.38	6.61 35TH	2.60
6.13	45TH	2.40	6.66 40TH	2.62
6.18	50TH	2.41	6.71 45TH	2.64
6.22	55TH		6.76 50TH	2.66
6.27	60TH	2.45	6.81 55TH	2.68
6.32	65TH	2.47	6.87 60TH	2.70
6.38	70IH	2.49	6.92 65TH	2.72
6.44	75TH	2.51	6.98 70TH	2.75
6.51	HIO8	2.53	7.05 75TH	2.77
6.59	85TH	2.56	7.12 80TH	2.86
6.70	90TH	2.60	7.21 85TH	2.84
6.88	95TH	2.54	7.33 90TH	2.89
6.99	97TH	2.71 2.75	7.51 95TH	2.96
7.08	971H 98TH		7.64 97TH	3.01
7.22		2.79	7.73 98TH	3.04
1.62	99TH	2.84	7.88 99TH	3.10

# (65) HIP ERFADIH

The horizontal distance between the lateral buttock landmarks on the sides of the hips is measured with a beam caliper. The subject stands erect with the heels together and the weight distributed equally on both feet.





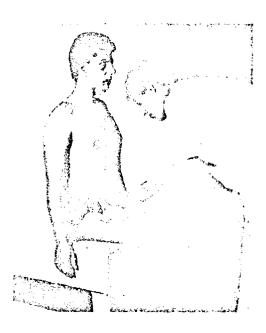
# VARIABLE NO. 65—HIP EREADIH

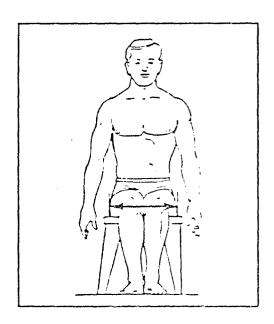
# FEMALES

THE SUM	TARY STAT	TSTTCS	. ਪਾਸ਼ਣ ਵਾਸ਼	MMARY STAT	TOTITOC
CENTIMETERS		INCHES			
	_	THE TIME	CENTIMET	c.ko	INCHES
35.59	MEAN	14.01	34.90	MEAN	12 74
	SE (MEAN)		0.00	MEAN SE (MEAN)	13.74
2.18	ST DEV	0.86	0.00	SE (PIEAM)	0.03
0.00	SE(SD)	0.00	1.86	ST DEV	0.73
0.08	ລະ (ວບ)	0.03	0.06	SE (SD)	0.02
39.80	MUMTAIN	11.73	30.60	MUNIMUM	12.05
41.50	MAXIMUM	16.34		MAXIMUM	
COEFF. OF V			COEFF. OF	VARIATION	5.3%
SYMMETRY		0.01	SYMMETRY-		0.37
KURIOSIS	-VETA II	2.76	KURIOSIS-		3.16
					3,120
NUMBER OF S	UBJECTS	334	NUMBER OF	SUBJECTS	487
PE	RCENTILES	3	Ţ	ERCENTILES	:
CENTIMETER	S	INCHES	CENTIMETE		INCHES
					231021127
30.63	1ST	12.06	31.20	1ST	12.28
31.15	2ND	12.25	31.51	2ND	
31.49	SRL	12.40	31.72	3RD	
31.97	5TH	12.59	32.03		12.49
32.75	10TH	12.89		5TH	12.61
33.28	15TH	13.10	32.55	101H	12.82
33.71			32.93	15TH	12.97
	20TH	13.27	33.25	20TH	13.09
34.09		13.42	33.54	25TH	13.21
34.42	30TH	13.55	33.81	30TH	13.31
34.74	35TH	13.68	34.06	35TH	13.41
35.03	40TH	13.79	34.31	40TH	13.51
35.32	45TH	13.90	34.55	45TH	13.60
35.60	501H		34.79	50TH	13.70
35.88	55TH	14.13	35.04		
36.16	6023			55TH	13.79
36.46	65TH	14.35	35.29	60TH	13.89
36.77			35.56	65TH	14.00
		14.47	35.84	70IH	14.11
37.10	75TH	14.60	36.15	751H	14.23
37.47	HT08	14.75	36.49	HI08	14.37
37.89	85TH	14.92	36.89	85TH	14.52
38.42	90TH	15.13	37.38	90TH	14.72
39.20	95TH	15.43	38,09	95TH	15.00
39.70	97TH	15.63	38.53	97TH	15.17
40.07	98TH		38.84		
40.64	99TH	16.00			15.29
.0.04	22111	10.00	39.28	99TH	15.46

# (66) HIT BREADIH, STITING

The distance between the lateral points of the hips or thighs (whichever are broader) is measured with a beam caliper. The subject sits erect with the feet and knees together.





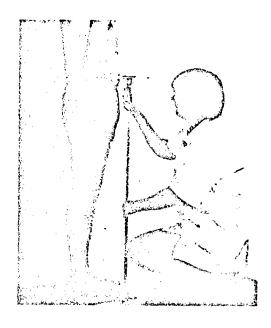
# VARIABLE NO. 66-HIP BREADIH, SITTING

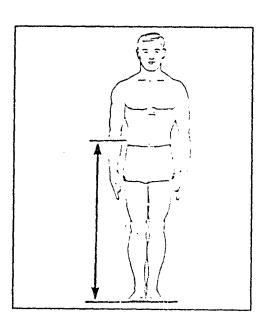
# FEMALES

THE SU	MMARY STAT	TSTTCS	TETT CT	SCIV COM	~~~
CENTIMET	FTRS	INCHES		MARY STAT	
		Tidito	CENTIMET	#\$S	INCHES
39.78	MEAN	15.66	37.18	MEAN	14.64
0.15	SE (MEAN)	0.06		SE (MEAN)	
2.75	ST DEV	1.08	2.19		
0.11	SE(SD)	0.04	0.07		
	•		0.07	ວະເວບງ	0.03
32.60	MUNIMUM		31.90	MINIMUM	12.56
47.50	MAXIMUM	18.70	45.30		
COEFF. OF	VARIATION	6.9%	COEFF. OF	WOLLE TO THE	5.0%
SYMMETRY-	VETA I	0.17	SYMMETRY—	TATTIA T	0.38
KURTOSIS-	VETA II	2.78	KURTOSIS-	T KULTA	3.23
			10146515	ALLIN II	3.23
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
*	ETY ENITY IV		-	<del></del>	
CENTIMETE	ERCENTILES	_		ERCENTILES	5
CENTIMETE	rω	INCHES	CENTIMETE	RS	INCHES
33.62	1ST	13.24	32.84	1ST	12.93
34.41	2ND	13.55	33.21	2ND	13.07
34.88	3RD	13.73	33.46	3RD	
35.48	5TH	13.97	33.83	577H	13.18
36.36	10TH	14.32	34.45		13.32
36.95	15TH	14.55	34.90	10TH	13.56
37.43		14.74		15TH	13.74
37.85	25TH		35.28	20TH	13.89
38.23	30TH		35.62	25TH	14.02
38.59	35TH	15.19	35.93	30TH	14.14
38.95	40TH	15.33	36.22	35TH	14.26
39.29	45TH	15.47	36.50	40TH	14.37
39.65	50TH		36.78	45TH	14.48
40.01	55TH		37.06	50TH	14.59
40.38		15.75	37.35	55TH	14.70
40.77	60TH	15.90	37.64	601H	14.82
41.18	65TH	16.05	37.94		14.94
	70TH	16.21	38.27	70TH	15.07
41.64	75TH	16.39	38.62	75TH	15.21
42.16		16.60	39.02	80IH	
42.76	85TH	16.84	39.47	85TH	15.54
43.52	90TH	17.13	40.05	90TH	15.77
44.59	95TH	17.56	40.89	95TH	16.10
45.24	97TH	17.81	41.41	97TH	16.30
45.67	98 H	17.98	41.78	98TH	16.45
46.26	99TH	18.21	42.34	99TH	16.67
					10.07

### (67) LIOCRISTALE HEIGHT

The vertical distance between a standing surface and the iliocristale landmark on the top of the right side of the pelvis is measured with an anthropometer. The subject stands erect with the heels together and the weight distributed equally on both feet. The shoulders and upper extremities are relaxed.





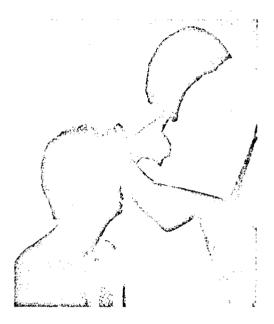
# VARIABLE NO. 67-ILICCRISTALE HEIGHT

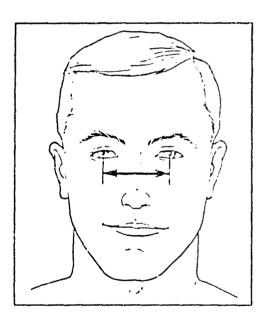
### FEMALES

THE SUMMARY STATE	CUITCS	THE SUMMARY STATT	emice
CENTIMETERS	INCHES		INCHES
	11.0112		11/21/20
102.04 MEAN	40.18	107.62 MEAN	42.37
0.17 SE (MEAN)		0.22 SE (MEAN)	
3.19 ST DEV	1.26	4.91 ST DEV	
0.12 SE(SD)	0.05	0.16 SE(SD)	0.06
94.00 MINIMIM		95.50 MINIMUM	
114.90 MAXIMUM	45.24	121.00 MAXIMUM	47.64
COEFF. OF VARIATION	3.1%	COEFF. OF VARIATION	A 6%
SYMMETRY—VETA I	0.60	SYMMETRY—VETA I	
KURTOSIS—VETA II	3.57	KURTOSIS—VETA II	
· · · · · · · · · · · · · · · · · · ·			2.00
NUMBER OF SUBJECTS	334	NUMBER OF SUBJECTS	487
	····		······································
			_
PERCENTILES CENTIMETERS	INCHES	PERCENTILES CENTIMETERS	INCHES
CHIMETERS	тистъз	CENTINETERS	TACUES
96.03 1ST	37.81	96.93 1ST	38,16
96.58 2ND	38.03	98.08 2ND	
96.95 3RD	35.17	98.81 3RD	38.90
97.46 5TH	38.37	99.80 5TH	39.29
98.29 10TH	38.70	101.36 10TH	39.90
98.87 15TH	38.93	102.44 15TH	40.33
99.36 20TH	39.12	103.32 20TH	40.68
99.79 25TH	39.29	104.11 25TH	40.99
100.20 30TH	39.45	104.82 30TH	
100.58 35TH	39.60	105.50 35TH	41.53
100.95 40TH	39.74	106.15 40TH	
101.32 5TH	39.89	106.79 45TH	
101.70 50TH	40.04	107.43 50TH	
102.09 55TH	40.19	108.09 55TH	42.55
102.49 60TH	40.35	108.75 60TH	42.82
102.92 65TH	40.52	100.75 65TH	43.09
102.92 05111 103.39 70TH	40.70		
		110.19 70TH	43.38
103.91 75TH	40.91	110.99 75TH	43.70
104.52 80TH	41.15	111.90 80TH	
105.25 85TH	41.44	112.94 85TH	44.46
106.22 90TH	41.82	114.24 90TH	44.98
107.77 95TH	42.43	116.09 95111	45.70
108.84 97TH	42.85	<b>117.21</b> 97TH	46.14
109.67 98111	43.18	<b>117.9</b> 7 981H	46.45
111.04 99TH	43.72	119.06 99TH	46.88

# (68) INTERPUPILIARY EREADIH

The distance between the two pupils is measured with a pupillometer.





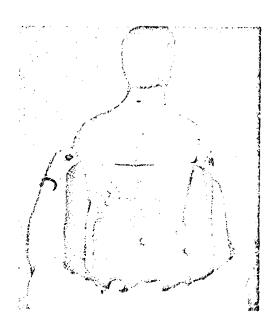
# VARIABLE NO. 68-INTERPUPILLARY ERFADIH

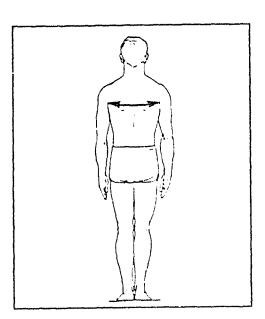
### FEMALES

THE SUMMARY STATE			THE SUM	MARY STATISTICS	
CENTIMETE	rs	INCHES	CENTIMETE	rs inche	S
<i>c</i> 10	3/(2337	0 41			_
6.12	MEAN SE (MEAN)	2.41	6.43	MEAN 2.53 SE(MEAN) 0.03	-
			0.01	SE (MEAN) 0.0	
0.30	ST DEV SE(SD)	0.12	0.32	ST DEV 0.1	
0.01	SE(SD)	0.00	0.01	SE(SD) 0.00	0
	MUNIMUM		5.60	MINIMUM 2.20	0
6.90	MUMIXAM	2.72	7.50	MAXIMIM 2.9	5
COEFF. OF	TADT SOTON	4 08			•
SYMMETRY—		-0.16		VARIATION 5.09	
KURTOSIS				VETA I 0.15	
TOUTOTO	verw II	2.90	KUKTUSIS-	VETA II 3.06	Ь
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS 487	7
-					
	ERCENTILES			ERCENTILES	_
CENTIMETE	RS	INCHES	CENTIMETE	rs inches	5
5.35	1ST	2.10	5.70	1ST 2.24	4
5.45	1ST 2ND	2.15	5.78	יר כי בווגכ	
5.51	3RD	2.17	5.83	3RD 2.30	
5.60	5TH	2.20	5.90	5TH 2.32	
5.72	10TH	2.25	6.02	10TH 2.37	
5.80	15TH	2.28	6.09		
5.86	20TH	2.31	6.15	20TH 2.42	
5.92	25TH	2.33	6.21		
5.96	30TH	2.35	6.26	20074 2 44	
6.01	35TH	2.37	6.30		-
6.05	40TH	2.38	6.34	40TH 2.50	
6.09	45TH	2.40	6.38		
6.13	501H	2.41	6, 42	50TH 2.53	
6.16	55TH	2.43	6.46	55TH 2.54	
6.20	60TH	2.44	6.50	60TH 2.56	
6.24	65TH	2.46	6.54	65TH 2.58	-
6.28	70TH	2.47	6.59	70TH 2.59	
6.33	75TH	2.49	6.61	75TH 2.61	-
6.37	80TH	2.51	6.69	80TH 2.63	
6.43	85TH	2.53	<b>6.</b> 75	85TH 2.66	
6.49	90TH	2.56	6.83	90TH 2.69	
6.59	95TH	2.59	6.96		
6.65	97TH	2.62	7.04		
6.69	98TH	2.63	7.10	98TH 2.80	
6.75	99TH	2.66	7.20	99TH 2.84	
			7.20	2.84	•

### (69) INTERSCYE I

The distance across the back between the right and left posterior-axillary-fold landmarks is measured with a tape. The tape is held on the skin surface except where the tape spans the hollow of the back. The subject stands erect looking straight ahead. The heels are together with the weight distributed equally on both feet. The shoulders and upper extremities are relaxed. The measurement is taken at the maximum point of quiet respiration.





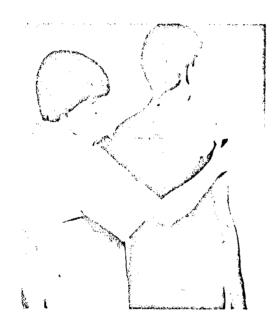
# VARIABLE NO. 69-INTERSCYE I

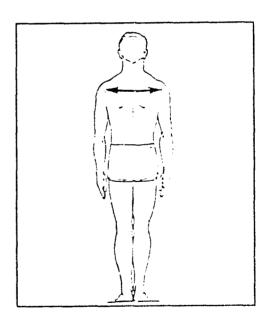
### FEMALES

THE SUMMARY STATISTICS CENTIMETERS INCHES  35.78 MEAN 14.09 0.15 SE(MEAN) 0.06 0.13 SE(MEAN) 0.05 2.71 ST DEV 1.07 2.82 ST DEV 1.11 0.10 SE(SD) 0.04  26.60 MINIMUM 10.47 33.80 MINIMUM 13.31 43.40 MAXIMUM 17.09 50.20 MAXIMUM 19.76  COEFF. OF VARIATION 7.6% SYMMETRY—VETA I 0.07 KURICSIS—VETA II 3.03  NUMBER OF SUBJECTS 334  NUMBER OF SUBJECTS 487  FERCENTILES  20.40 1ST 11.97 34.75 1ST 13.68 30.40 1ST 11.97 34.75 1ST 13.68 30.40 2ST 11.240 36.27 5TH 14.28 31.50 5TH 12.40 36.27 5TH 14.28 32.93 15TH 12.96 33.43 2OTH 13.16 33.34 30TH 13.50 33.43 2OTH 13.16 33.43 2OTH 13.65 35.03 4OTH 13.79 40.00 40.00 40TH 15.78 35.38 45TH 13.93 34.29 3OTH 13.50 35.38 45TH 13.93 35.72 5OTH 14.06 40.08 5OTH 16.07 36.07 55TH 14.20 36.42 6OTH 14.34 41.57 6OTH 16.37 36.79 65TH 14.48 41.50 65TH 16.86 38.05 8OTH 14.48 41.57 6OTH 16.52 37.17 7OTH 14.63 38.59 85TH 15.19 39.28 9OTH 15.46 41.59 97TH 16.16 40.26 97TH 18.21 41.61 98TH 16.75					
35.78   MEAN   14.09   40.87   MEAN   16.09	THE SUM	Mary Siati	STICS	THE SUMMARY STATI	STICS
0.15 SE (MEAN) 0.06 2.71 ST DEV 1.07 2.82 ST DEV 1.11 0.10 SE (SD) 0.04 0.09 SE (SD) 0.04  26.60 MINIMUM 10.47 33.80 MINIMUM 13.31 43.40 MAXIMUM 17.09 50.20 MAXIMUM 19.76  COEFF. OF VARIATION 7.6% SYMMETRY—VETA I 0.07 KURICSIS—VETA II 3.03 KURICSIS—VETA II 2.81  NUMBER OF SUBJECTS 334 NUMBER OF SUBJECTS 487  PERCENTILES CENTIMETERS INCHES CENTIMETERS INCHES  30.40 1ST 11.97 34.75 1ST 13.68 30.76 2ND 12.11 35.32 NND 11.91 31.04 3RD 12.22 35.71 2RD 14.06 31.50 5TH 12.40 36.27 5TH 14.28 32.32 10TH 12.72 37.20 10TH 14.65 32.93 15TH 12.96 37.86 15TH 14.90 33.43 20TH 13.16 38.39 20TH 15.12 33.88 25TH 13.34 38.87 25TH 14.90 33.43 20TH 13.16 38.39 20TH 15.12 33.88 25TH 13.34 38.87 25TH 15.30 34.29 30TH 13.50 39.30 30TH 15.47 34.66 35TH 13.65 39.70 35TH 15.63 35.03 40TH 13.79 40.06 40TH 15.78 35.38 45TH 13.93 40.45 45TH 15.93 35.72 50TH 14.06 40.82 50TH 16.07 36.07 55TH 14.20 41.20 55TH 16.27 36.42 60TH 14.34 41.57 60TH 16.37 36.79 65TH 14.48 41.96 65TH 16.52 37.17 70TH 14.63 42.37 70TH 16.68 37.58 75TH 14.80 42.82 75TH 16.86 38.05 80TH 14.98 43.31 80TH 17.55 40.24 95TH 15.88 45.61 95TH 17.96 41.05 97TH 16.16 46.26 97TH 18.21 41.05 97TH 16.16 46.26 97TH 18.21 41.05 97TH 16.16 46.26 97TH 18.21	CENTIMETE	RS	INCHES	CENTIMETERS	INCHES
0.15 SE (MEAN) 0.06 2.71 ST DEV 1.07 2.82 ST DEV 1.11 0.10 SE (SD) 0.04 0.09 SE (SD) 0.04  26.60 MINIMUM 10.47 33.80 MINIMUM 13.31 43.40 MAXIMUM 17.09 50.20 MAXIMUM 19.76  COEFF. OF VARIATION 7.6% SYMMETRY—VETA I 0.07 KURICSIS—VETA II 3.03 KURICSIS—VETA II 2.81  NUMBER OF SUBJECTS 334 NUMBER OF SUBJECTS 487  PERCENTILES CENTIMETERS INCHES CENTIMETERS INCHES  30.40 1ST 11.97 34.75 1ST 13.68 30.76 2ND 12.11 35.32 NND 11.91 31.04 3RD 12.22 35.71 2RD 14.06 31.50 5TH 12.40 36.27 5TH 14.28 32.32 10TH 12.72 37.20 10TH 14.65 32.93 15TH 12.96 37.86 15TH 14.90 33.43 20TH 13.16 38.39 20TH 15.12 33.88 25TH 13.34 38.87 25TH 14.90 33.43 20TH 13.16 38.39 20TH 15.12 33.88 25TH 13.34 38.87 25TH 15.30 34.29 30TH 13.50 39.30 30TH 15.47 34.66 35TH 13.65 39.70 35TH 15.63 35.03 40TH 13.79 40.06 40TH 15.78 35.38 45TH 13.93 40.45 45TH 15.93 35.72 50TH 14.06 40.82 50TH 16.07 36.07 55TH 14.20 41.20 55TH 16.27 36.42 60TH 14.34 41.57 60TH 16.37 36.79 65TH 14.48 41.96 65TH 16.52 37.17 70TH 14.63 42.37 70TH 16.68 37.58 75TH 14.80 42.82 75TH 16.86 38.05 80TH 14.98 43.31 80TH 17.55 40.24 95TH 15.88 45.61 95TH 17.96 41.05 97TH 16.16 46.26 97TH 18.21 41.05 97TH 16.16 46.26 97TH 18.21 41.05 97TH 16.16 46.26 97TH 18.21					
2.71 ST DEV 1.07					
0.10         SE(SD)         0.04         0.09         SE(SD)         0.04           26.60         MINIMUM         10.47         33.80         MINIMUM         13.31           43.40         MAXIMUM         17.09         50.20         MAXIMUM         19.76           COEFF. OF VARIATION         7.6%         COEFF. OF VARIATION         6.9%           SYMMETRY         VETA I         0.07         SYMMETRY         VETA II         0.11           KURICOSIS         VETA II         3.03         KURICOSIS         VETA II         2.81           PERCENTILES           CENTIMETERS         INCHES         CENTIMETERS         INCHES           SUBJECTS         334         NUMBER OF SUBJECTS         487           PERCENTILES           CENTIMETERS         INCHES           SUBJECTS         334         NUMBER OF SUBJECTS         487           PERCENTILES           CENTIMETERS         INCHES         CENTIMETERS         INCHES           SUBJECTS         3487         15T         13.68         36.27         15Th         13.68         36.27         13.61         36.27         5Th         14.08 <td></td> <td></td> <td>0.06</td> <td></td> <td></td>			0.06		
26.60 MINIMUM 10.47 43.40 MAXIMUM 17.09 50.20 MAXIMUM 19.76  COEFF. OF VARIATION 7.6% SYMMETRY—VETA I 0.07 SYMMETRY—VETA I 0.11 KURICSIS—VETA II 3.03 KURICSIS—VETA II 2.81  NUMBER OF SUBJECTS 334 NUMBER OF SUBJECTS 487  FERCENTILES CENTIMETERS INCHES  30.40 1ST 11.97 34.75 1ST 13.68 30.76 2ND 12.11 35.32 1ND 13.91 31.04 3RD 12.22 35.71 3RD 14.06 31.50 5TH 12.40 36.27 5TH 14.06 31.50 5TH 12.40 36.27 5TH 14.28 32.32 10TH 12.72 37.20 10TH 14.65 32.93 15TH 12.96 33.43 20TH 13.16 33.88 25TH 13.34 38.89 25TH 15.30 34.29 30TH 13.50 33.43 20TH 13.50 33.50 30TH 15.63 35.03 40TH 13.79 40.00 40TH 15.78 35.38 45TH 13.93 40.45 45TH 15.93 35.72 50TH 14.06 40.82 50TH 16.07 36.07 55TH 14.20 41.20 55TH 16.22 36.42 60TH 14.34 41.57 60TH 16.37 36.79 65TH 14.48 41.96 65TH 16.37 36.75 75TH 14.80 42.82 75TH 16.36 38.59 85TH 15.19 43.38 85TH 17.27 39.28 90TH 15.46 41.61 98TH 16.38 46.73 98TH 18.40	2.71				
## 43.40 MAXIMUM 17.09	0.10	SE(SD)	0.04	0.09 SE(SD)	0.04
## 43.40 MAXIMUM 17.09	26 60	MITATIMITM	30 A7	22 QA MINITMIM	12 21
COEFF. OF VARIATION         7.6%         COEFF. OF VARIATION         6.9%           SYMMETRY—VETA I         0.07         SYMMETRY—VETA I         0.11           KURTOSIS—VETA II         3.03         KURTOSIS—VETA II         2.81           NUMBER OF SUBJECTS         334         NUMBER OF SUBJECTS         487           FERCENTILES           CENTIMETERS         INCHES           TOTAL STREET STREETS           30.40         1ST         11.97         34.75         1ST         13.68           30.76         2ND         12.11         35.32         2ND         13.91           31.04         3RD         12.22         35.71         3RD         14.06           31.50         5TH         12.40         36.27         5TH         14.28           32.32         10TH         12.72         37.20         10TH         14.65           32.93         15TH         12.96         37.86         15TH         14.90           33.43         20TH         13.16         38.39         20TH         15.12           33.88         25TH         13.34         38.97         25TH         15.40           34.66         3					10.76
NUMBER OF SUBJECTS   334   NUMBER OF SUBJECTS   487	43.40	MAXIMUM	17.09	50.20 MAXIMI	19.70
NUMBER OF SUBJECTS   334   NUMBER OF SUBJECTS   487	COEFF. OF	VARIATION	7.6%	COEFF. OF VARIATION	6.9%
NUMBER OF SUBJECTS   334   NUMBER OF SUBJECTS   487	SYMMETRY	VETA I	0.07	SYMMETRY—VETA I	0.11
PERCENTILES CENTIMETERS INCHES  30.40 1ST 11.97 34.75 1ST 13.68 30.76 2ND 12.11 35.32 2ND 13.91 31.04 3RD 12.22 35.71 2RD 14.06 31.50 5Th 12.40 36.27 5Th 14.28 32.32 10Th 12.72 37.20 10Th 14.65 32.93 15Th 12.96 37.86 15Th 14.90 33.43 20Th 13.16 38.39 20Th 15.12 33.88 25Th 13.34 38.87 25Th 15.30 34.29 30Th 13.50 39.30 30Th 15.47 34.66 35Th 13.65 39.70 35Th 15.63 35.03 40Th 13.79 40.00 40Th 15.78 35.38 45Th 13.93 40.45 45Th 15.93 35.72 50Th 14.06 40.82 50Th 16.07 36.07 55Th 14.20 41.20 55Th 16.22 36.42 60Th 14.34 41.57 60Th 16.37 36.79 65Th 14.48 41.96 65Th 16.52 37.17 70Th 14.63 42.37 70Th 16.68 37.58 75Th 14.80 42.82 75Th 16.86 38.05 80Th 14.98 43.31 80Th 17.05 38.59 85TH 15.19 43.88 85TH 17.27 39.28 90TH 15.46 44.58 90TH 17.55 40.34 95TH 15.88 45.61 95TH 17.96 41.05 97TH 16.16	KURICSIS-	-VETA II	3.03	KURIOSISVETA II	2.81
CENTIMETERS   INCHES   CENTIMETERS   INCHES	NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS	487
CENTIMETERS   INCHES   CENTIMETERS   INCHES					*****
CENTIMETERS   INCHES   CENTIMETERS   INCHES	τ	מבי <b>דידוראיזייט</b> יים	•	CALLILIANCEG	<b>!</b>
30.40 1ST 11.97 34.75 1ST 13.68 30.76 2ND 12.11 35.32 2ND 13.91 31.04 3RD 12.22 35.71 3RD 14.06 31.50 5TH 12.40 36.27 5TH 14.28 32.32 10TH 12.72 37.20 10TH 14.65 32.93 15TH 12.96 37.86 15TH 14.90 33.43 20TH 13.16 38.39 20TH 15.12 33.88 25TH 13.34 38.87 25TH 15.30 34.29 30TH 13.50 39.30 30TH 15.47 34.66 35TH 13.65 39.70 35TH 15.63 35.03 40TH 13.79 40.08 40TH 15.78 35.38 45TH 13.93 40.45 45TH 15.93 35.72 50TH 14.06 40.82 50TH 16.07 36.07 55TH 14.20 41.20 55TH 16.22 36.42 60TH 14.34 41.57 60TH 16.37 36.79 65TH 14.48 41.96 65TH 16.52 37.17 70TH 14.63 42.37 70TH 16.68 37.58 75TH 14.80 42.82 75TH 16.86 38.05 80TH 14.98 43.31 80TH 17.05 38.59 85TH 15.19 43.88 85TH 17.27 39.28 90TH 15.46 44.58 90TH 17.55 40.34 95TH 15.88 45.61 95TH 17.96 41.05 97TH 16.16 46.26 97TH 18.21 41.61 98TH 16.16					
30.76  2ND 12.11  35.32  2ND 13.91  31.04  3RD 12.22  35.71  3RD 14.06  31.50  5TH 12.40  36.27  5TH 14.28  32.32  10TH 12.72  37.20  10TH 14.65  32.93  15TH 12.96  37.86  15TH 14.90  33.43  20TH 13.16  38.39  20TH 15.12  33.88  25TH 13.34  38.87  25TH 15.30  34.29  30TH 13.50  39.30  30TH 15.47  34.66  35TH 13.65  39.70  35TH 15.63  35.03  40TH 13.79  40.00  40TH 15.78  35.38  45TH 13.93  40.45  45TH 15.93  35.72  50TH 14.06  40.82  50TH 16.07  36.07  55TH 14.20  41.20  55TH 16.22  36.42  60TH 14.34  41.57  60TH 16.37  36.79  65TH 14.48  41.96  65TH 16.52  37.17  70TH 14.63  42.37  70TH 16.68  38.05  80TH 14.98  43.31  80TH 17.05  38.59  85TH 15.19  43.88  85TH 17.27  39.28  90TH 15.46  44.58  90TH 17.55  40.34  95TH 15.88  45.61  95TH 17.96  41.05  97TH 16.16  46.26  97TH 18.21  41.61  98TH 16.38	CL:141JIMIT		تعسياس	CLATE LITTLE	21,020
31.04       3RD       12.22       35.71       3RD       14.06         31.50       5TH       12.40       36.27       5TH       14.28         32.32       10TH       12.72       37.20       10TH       14.65         32.93       15TH       12.96       37.86       15TH       14.90         33.43       20TH       13.16       38.39       20TH       15.12         33.88       25TH       13.34       38.87       25TH       15.30         34.29       30TH       13.50       39.30       30TH       15.47         34.66       35TH       13.65       39.70       35TH       15.63         35.03       40TH       13.79       40.08       40TH       15.78         35.38       45TH       13.93       40.45       45TH       15.93         35.72       50TH       14.06       40.82       50TH       16.07         36.07       55TH       14.20       41.20       55TH       16.22         36.42       60TH       14.34       41.57       60TH       16.37         36.79       65TH       14.48       41.96       65TH       16.68         37.58	30.40			34.75 1ST	13.68
31.50 5TH 12.40 36.27 5TH 14.28 32.32 10TH 12.72 37.20 10TH 14.65 32.93 15TH 12.96 37.86 15TH 14.90 33.43 20TH 13.16 38.39 20TH 15.12 33.88 25TH 13.34 38.87 25TH 15.30 34.29 30TH 13.50 39.30 30TH 15.47 34.66 35TH 13.65 39.70 35TH 15.63 35.03 40TH 13.79 40.00 40TH 15.78 35.38 45TH 13.93 40.45 45TH 15.93 35.72 50TH 14.06 40.82 50TH 16.07 36.07 55TH 14.20 41.20 55TH 16.22 36.42 60TH 14.34 41.57 60TH 16.37 36.79 65TH 14.48 41.96 65TH 16.52 37.17 70TH 14.63 42.37 70TH 16.68 37.58 75TH 14.80 42.82 75TH 16.86 38.05 80TH 14.98 43.31 80TH 17.05 38.59 85TH 15.19 43.88 85TH 17.27 39.28 90TH 15.46 44.58 90TH 17.55 40.34 95TH 15.88 45.61 95TH 17.96 41.05 97TH 16.16 46.26 97TH 18.21 41.61 98TH 16.18	30.76	2ND	12.11		
31.50 5TH 12.40 36.27 5TH 14.28 32.32 10TH 12.72 37.20 10TH 14.65 32.93 15TH 12.96 37.86 15TH 14.90 33.43 20TH 13.16 38.39 20TH 15.12 33.88 25TH 13.34 38.87 25TH 15.30 34.29 30TH 13.50 39.30 30TH 15.47 34.66 35TH 13.65 39.70 35TH 15.63 35.03 40TH 13.79 40.00 40TH 15.78 35.38 45TH 13.93 40.45 45TH 15.93 35.72 50TH 14.06 40.82 50TH 16.07 36.07 55TH 14.20 41.20 55TH 16.22 36.42 60TH 14.34 41.57 60TH 16.37 36.79 65TH 14.48 41.96 65TH 16.52 37.17 70TH 14.63 42.37 70TH 16.68 37.58 75TH 14.80 42.82 75TH 16.86 38.05 80TH 14.98 43.31 80TH 17.05 38.59 85TH 15.19 43.88 85TH 17.27 39.28 90TH 15.46 44.58 90TH 17.55 40.34 95TH 15.88 45.61 95TH 17.96 41.05 97TH 16.16 46.26 97TH 18.21 41.61 98TH 16.18	31.04	3RD	12.22	<b>35.71</b> 3RD	14.06
32.32       10TH       12.72       37.20       10TH       14.65         32.93       15TH       12.96       37.86       15TH       14.90         33.43       20TH       13.16       38.39       20TH       15.12         33.88       25TH       13.34       38.87       25TH       15.30         34.29       30TH       13.50       39.30       30TH       15.47         34.66       35TH       13.65       39.70       35TH       15.63         35.03       40TH       13.79       40.00       40TH       15.78         35.38       45TH       13.93       40.45       45TH       15.93         35.72       50TH       14.06       40.82       50TH       16.07         36.07       55TH       14.20       41.20       55TH       16.22         36.42       60TH       14.34       41.57       60TH       16.37         36.79       65TH       14.48       41.96       65TH       16.52         37.17       70TH       14.63       42.37       70TH       16.68         38.05       80TH       14.98       43.31       80TH       17.05         38.59	31.50	5TH	12.40	36.27 5TH	14.28
32.93       15TH       12.96       37.86       15TH       14.90         33.43       20TH       13.16       38.39       20TH       15.12         33.88       25TH       13.34       38.87       25TH       15.30         34.29       30TH       13.50       39.30       30TH       15.47         34.66       35TH       13.65       39.70       35TH       15.63         35.03       40TH       13.79       40.00       40TH       15.78         35.38       45TH       13.93       40.45       45TH       15.93         35.72       50TH       14.06       40.82       50TH       16.07         36.07       55TH       14.20       41.20       55TH       16.22         36.42       60TH       14.34       41.57       60TH       16.37         36.79       65TH       14.48       41.96       65TH       16.52         37.17       70TH       14.63       42.37       70TH       16.68         38.05       80TH       14.98       43.31       80TH       17.05         38.59       85TH       15.19       43.88       85TH       17.27         39.28	32.32	10TH	12.72	37.20 10TH	14.65
33.43 20TH 13.16 38.39 20TH 15.12 33.88 25TH 13.34 38.87 25TH 15.30 34.29 30TH 13.50 39.30 30TH 15.47 34.66 35TH 13.65 39.70 35TH 15.63 35.03 40TH 13.79 40.08 40TH 15.78 35.38 45TH 13.93 40.45 45TH 15.93 35.72 50TH 14.06 40.82 50TH 16.07 36.07 55TH 14.20 41.20 55TH 16.22 36.42 60TH 14.34 41.57 60TH 16.37 36.79 65TH 14.48 41.96 65TH 16.52 37.17 70TH 14.63 42.37 70TH 16.68 37.58 75TH 14.80 42.82 75TH 16.86 38.05 80TH 14.98 43.31 80TH 17.05 38.59 85TH 15.19 43.88 85TH 17.27 39.28 90TH 15.46 44.58 90TH 17.55 40.34 95TH 15.88 45.61 95TH 17.96 41.05 97TH 16.16 46.26 97TH 18.21 41.61 98TH 16.38 46.73 98TH 18.40	32.93			37.86 15TH	14.90
34.29       30TH       13.50       39.30       30TH       15.47         34.66       35TH       13.65       39.70       35TH       15.63         35.03       40TH       13.79       40.00       40TH       15.78         35.38       45TH       13.93       40.45       45TH       15.93         35.72       50TH       14.06       40.82       50TH       16.07         36.07       55TH       14.20       41.20       55TH       16.22         36.42       60TH       14.34       41.57       60TH       16.37         36.79       65TH       14.48       41.96       65TH       16.52         37.17       70TH       14.63       42.37       70TH       16.68         37.58       75TH       14.80       42.82       75TH       16.86         38.05       80TH       14.98       43.31       80TH       17.05         38.59       85TH       15.19       43.88       85TH       17.27         39.28       90TH       15.46       44.58       90TH       17.55         40.34       95TH       15.88       45.61       95TH       18.21         41.61	33.43	201H	13.16	38.39 20TH	15.12
34.29       30TH       13.50       39.30       30TH       15.47         34.66       35TH       13.65       39.70       35TH       15.63         35.03       40TH       13.79       40.00       40TH       15.78         35.38       45TH       13.93       40.45       45TH       15.93         35.72       50TH       14.06       40.82       50TH       16.07         36.07       55TH       14.20       41.20       55TH       16.22         36.42       60TH       14.34       41.57       60TH       16.37         36.79       65TH       14.48       41.96       65TH       16.52         37.17       70TH       14.63       42.37       70TH       16.68         37.58       75TH       14.80       42.82       75TH       16.86         38.05       80TH       14.98       43.31       80TH       17.05         38.59       85TH       15.19       43.88       85TH       17.27         39.28       90TH       15.46       44.58       90TH       17.55         40.34       95TH       16.16       46.26       97TH       18.21         41.61	33.88	25TH	13.34		
34.66       35TH       13.65       39.70       35TH       15.63         35.03       40TH       13.79       40.08       40TH       15.78         35.38       45TH       13.93       40.45       45TH       15.93         35.72       50TH       14.06       40.82       50TH       16.07         36.07       55TH       14.20       41.20       55TH       16.22         36.42       60TH       14.34       41.57       60TH       16.37         36.79       65TH       14.48       41.96       65TH       16.52         37.17       70TH       14.63       42.37       70TH       16.68         37.58       75TH       14.80       42.82       75TH       16.86         38.05       80TH       14.98       43.31       80TH       17.05         38.59       85TH       15.19       43.88       85TH       17.27         39.28       90TH       15.46       44.58       90TH       17.55         40.34       95TH       15.88       45.61       95TH       18.21         41.61       98TH       16.38       46.73       98TH       18.40	34.29	30TH	13.50	39.30 30TH	15.47
35.03 40TH 13.79 40.08 40TH 15.78 35.38 45TH 13.93 40.45 45TH 15.93 35.72 50TH 14.06 40.82 50TH 16.07 36.07 55TH 14.20 41.20 55TH 16.22 36.42 60TH 14.34 41.57 60TH 16.37 36.79 65TH 14.48 41.96 65TH 16.52 37.17 70TH 14.63 42.37 70TH 16.68 37.58 75TH 14.80 42.82 75TH 16.86 38.05 80TH 14.98 43.31 80TH 17.05 38.59 85TH 15.19 43.88 85TH 17.27 39.28 90TH 15.46 44.58 90TH 17.55 40.34 95TH 15.88 45.61 95TH 17.96 41.05 97TH 16.16 46.26 97TH 18.21 41.61 98TH 16.38 46.73 98TH 18.40	34.66	35TH	13.65		
35.38 45TH 13.93 40.45 45TH 15.93 35.72 50TH 14.06 40.82 50TH 16.07 36.07 55TH 14.20 41.20 55TH 16.22 36.42 60TH 14.34 41.57 60TH 16.37 36.79 65TH 14.48 41.96 65TH 16.52 37.17 70TH 14.63 42.37 70TH 16.68 37.58 75TH 14.80 42.82 75TH 16.86 38.05 80TH 14.98 43.31 80TH 17.05 38.59 85TH 15.19 43.88 85TH 17.27 39.28 90TH 15.46 44.58 90TH 17.55 40.34 95TH 15.88 45.61 95TH 17.96 41.05 97TH 16.16 46.26 97TH 18.21 41.61 98TH 16.38 46.73 98TH 18.40	35.03	40TH	13.79	40.08 4 <i>0</i> TH	15.78
36.42       60TH       14.34       41.57       60TH       16.37         36.79       65TH       14.48       41.96       65TH       16.52         37.17       70TH       14.63       42.37       70TH       16.68         37.58       75TH       14.80       42.82       75TH       16.86         38.05       80TH       14.98       43.31       80TH       17.05         38.59       85TH       15.19       43.38       85TH       17.27         39.28       90TH       15.46       44.58       90TH       17.55         40.34       95TH       15.88       45.61       95TH       17.96         41.05       97TH       16.16       46.26       97TH       18.21         41.61       98TH       16.38       46.73       98TH       18.40	35.38	45TH		40.45 45TH	15.93
36.42       60TH       14.34       41.57       60TH       16.37         36.79       65TH       14.48       41.96       65TH       16.52         37.17       70TH       14.63       42.37       70TH       16.68         37.58       75TH       14.80       42.82       75TH       16.86         38.05       80TH       14.98       43.31       80TH       17.05         38.59       85TH       15.19       43.38       85TH       17.27         39.28       90TH       15.46       44.58       90TH       17.55         40.34       95TH       15.88       45.61       95TH       17.96         41.05       97TH       16.16       46.26       97TH       18.21         41.61       98TH       16.38       46.73       98TH       18.40		50TH	14.06	40.82 50TH	16.07
36.42       60TH       14.34       41.57       60TH       16.37         36.79       65TH       14.48       41.96       65TH       16.52         37.17       70TH       14.63       42.37       70TH       16.68         37.58       75TH       14.80       42.82       75TH       16.86         38.05       80TH       14.98       43.31       80TH       17.05         38.59       85TH       15.19       43.38       85TH       17.27         39.28       90TH       15.46       44.58       90TH       17.55         40.34       95TH       15.88       45.61       95TH       17.96         41.05       97TH       16.16       46.26       97TH       18.21         41.61       98TH       16.38       46.73       98TH       18.40		55TH	14.20	41.20 55TH	16.22
36.79       65TH       14.48       41.96       65TH       16.52         37.17       70TH       14.63       42.37       70TH       16.68         37.58       75TH       14.80       42.82       75TH       16.86         38.05       80TH       14.98       43.31       80TH       17.05         38.59       85TH       15.19       43.38       85TH       17.27         39.28       90TH       15.46       44.58       90TH       17.55         40.34       95TH       15.88       45.61       95TH       17.96         41.05       97TH       16.16       46.26       97TH       18.21         41.61       98TH       16.38       46.73       98TH       18.40	36.42	60TH	14.34	41.57 60TH	16.37
37.17       70TH       14.63       42.37       70TH       16.68         37.58       75TH       14.80       42.82       75TH       16.86         38.05       80TH       14.98       43.31       80TH       17.05         38.59       85TH       15.19       43.38       85TH       17.27         39.28       90TH       15.46       44.58       90TH       17.55         40.34       95TH       15.88       45.61       95TH       17.96         41.05       97TH       16.16       46.26       97TH       18.21         41.61       98TH       16.38       46.73       98TH       18.40	36.79	65TH	14.48	41.96 651H	16.52
37.58       75TH       14.80       42.82       75TH       16.86         38.05       80TH       14.98       43.31       80TH       17.05         38.59       85TH       15.19       43.88       85TH       17.27         39.28       90TH       15.46       44.58       90TH       17.55         40.34       95TH       15.88       45.61       95TH       17.96         41.05       97TH       16.16       46.26       97TH       18.21         41.61       98TH       16.38       46.73       98TH       18.40					
38.05     80TH     14.98     43.31     80TH     17.05       38.59     85TH     15.19     43.88     85TH     17.27       39.28     90TH     15.46     44.58     90TH     17.55       40.34     95TH     15.88     45.61     95TH     17.96       41.05     97TH     16.16     46.26     97TH     18.21       41.61     98TH     16.38     46.73     98TH     18.40					
38.59       85TH       15.19       43.88       85TH       17.27         39.28       90TH       15.46       44.58       90TH       17.55         40.34       95TH       15.88       45.61       95TH       17.96         41.05       97TH       16.16       46.26       97TH       18.21         41.61       98TH       16.38       46.73       98TH       18.40					
39.28     90TH     15.46     44.58     90TH     17.55       40.34     95TH     15.88     45.61     95TH     17.96       41.05     97TH     16.16     46.26     97TH     18.21       41.61     98TH     16.38     46.73     98TH     18.40		85TH	15.19		
40.34       95TH       15.88       45.61       95TH       17.96         41.05       97TH       16.16       46.26       97TH       18.21         41.61       98TH       16.38       46.73       98TH       18.40		90TH	15.46		
41.05 97TH 16.16 46.26 97TH 18.21 41.61 98TH 16.38 46.73 98TH 18.40		95114	15.88		
41.61 98TH 16.38 46.73 98TH 18.40		97TH	16.16		
		99TH	16.75	47.44 99TH	18.68

### (70) INTERSCYE II

The distance across the back between the right and left midscye landmarks is measured with a tape. The tape is held on the skin surface except where it spans the hollow of the back. The subject stands erect looking straight ahead. The heels are together with the weight distributed equally on both feet. The shoulders and upper extremities are relaxed. The measurement is taken at the maximum point of quiet respiration.





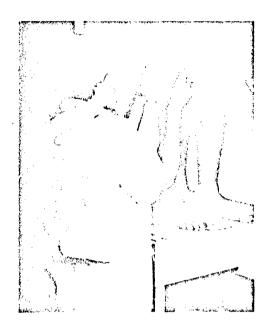
# VARIABLE NO. 70-INTERSCYE II

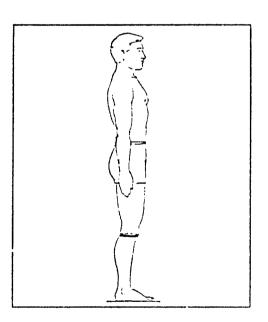
# FEMALES

THE SUM	MARY STATI	STICS	THE SUM	MARY STATISTICS	
		INCHES	CENTIMETE		
· · · · · · · · · · · · · · · · · · ·			<del></del>		
38.29	MEAN	15.07	41.66	MEAN 16.40	
	SE (MEAN)	0.05	0.12		
2.40	ST DEV	0.95	2.60		
0.09	SE(SD)	0.04	0.08	SE(SD) 0.03	
0.05	5.5(5.5)	0.0.	3332	()	
28,40	MINIMUM	11.18	33.90	MINIMUM 13.35	
	MAXIMUM	18.50	51.50		
COEFF. OF	VARIATION	6.3%	CEFF. OF	VARIATION 6.2%	
SYMMETRY-	-VETA I	-0.03	SYMMETRY—	VETA I 0.24	
KURITOSIS-	-VETA II	3.82	KURIOSIS-	VETA II 3.12	
		•			
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS 487	
F	PERCENTILES		_	PERCENTILES	
CENTIMETE	IRS	INCES	CENTIMETE	rs inches	
32.39	1ST		36.16	1ST 14.24	
33.34	2ND	13.13	36.72	2ND 14.46	
33.88	3RD	13.34	37.08	3RD 14.60	
34.53	5TH	13.59	37.59	51H 14.80	
35.42	10TH	13.94	38.40	10TH 15.12	
35.96	15TH	14.16	38.97	15TH 15.34	
36.38	20TH	14.32	39.43	20TH 15.52	
<b>36.74</b>	25TH	14.47	39.84	25TH 15.68	
37.06	30 <u>1</u> H	14.59	40.21	30TH 15.83	
37.36	35TH	14.71	40.56	35TH 15.97	
37 <b>.</b> 65	40TH	14.82	40.89	40TH 16.10	
37.93	45TH	14.93	41.22	45TH 16.23	
38.21	50TH	15.04	41.55	50TH 16.36	
38.50	55TH	15.16	41.88	55TH 16.49	
38.80	60TH	15.27	42.22	60TH 16.62	
39.11	65TH	15.40	42.57	65TH 16.76	
39.45	70TH	15.53	42.95	70TH 16.91	
39.82	75TH	15.68	43.37	75TH 17.07	
40.25	HI08	15.85	43.84	80TH 17.26	
40.75	85TH	16.04	44.39	85TH 17.48	
41.39	90TH	16.30	45.09	90TH 17.75	
42.33		16.67	46.16	95TH 18.17	
42.91	97TH	16.90	46.85	97TH 18.45	
43.32	98TH	17.05	47.37	98TH 18.65	
43.90	997H	17.28	48.19	99TH 18.97	
-13.70		1,	40.77	JJA11 204J1	

### (71) KNEE CIRCUMFERENCE

The horizontal circumference of the right knee at the level of the midpatella landmark at the center of the knee is measured with a tape. The subject stands erect with the feet about 10 cm apart and the weight distributed equally on both feet.





#### VARIABLE NO. 71-KNEE CIRCUMPERENCE

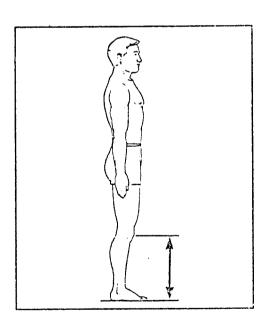
#### FEMALES

THE SUM	MARY STATI	STICS	THE SIR	Mary Stati	STICS
CENTIMETE		INCHES	CENTIMETE		INCHES
					21.222
37.09	MEAN	14.60	38.63	MEAN	15.21
0.13	SE (MEAN)	0.05		SE (MEAN)	0.04
2.34	ST DEV	0.92	2.00	ST DEV	0.79
0.09	SE(SD)	0.04	0.06		0.03
0.05	DI (DD)	0.54	0.00	SE (SD)	0.03
31.90	MINIMUM	12.56	33,50	MINIMUM	13.19
44.10	MAXIMUM		43.80		17.24
					2
COEFF. OF	VARIATION	6.3%	COEFF. OF	VARIATION	5.2%
SYMETRY—	VETA I	0.40	SYMMETRY—	VETA I	0.24
KURTOSIS-	VETA II	2.92	KURIOSIS-	VETA II	2.55
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
					<del></del>
r	ERCENTILES	•	•	ERCENTILES	
CENTIMETE		INCHES	CENTIMETE		INCHES
WX11111111		211(11)	CENTIMBLE	22	INCIES
32.70	181	12.88	34.53	1ST	13.59
32.93	2ND	12.96	34.95	2ND	
33.13	3RD	13.04	35.21		
33.48	5TH	13.18	35.56	51H	
34.13	10TH	13.44	36.12	10111	14.22
34.62	15TH	13.63	36.52	15TH	14.22
35.04	20TH	13.79		TOTU	14.30
35.41	25TH		36.85	20TH 25TH	14.51
		13.94	37.15		
35.74	30TH	14.07	37.43	30TH	
36.06	35TH	14.20	37.69	35TH	14.84
36.36	401H	14.32	37.96	40TH	
36.66	45TH	14.43	38.22	45TH	15.05
36.95	50TH	14.55	38.49		15.15
37.24	55TH	14.66	38.76	55TH	15.26
37.55	60TH	14.78	39.04	60TH	15.37
37.86	65TH	14.91	39.34	65TH	15.49
38.19	70TH	15.04	39.66	70TH	15.61
38.56	75TH	15.18	40.00	75TH	15.75
38.98	HT08	15.35	40.40	нтез	15.90
39.47	85'IH	15.54	40.85	85TH	16.08
40.13	90TH	15.80	41.41	90111	
41.19	95TH	16.22	42.20	95TH	16.61
41.95	97TH	16.52	42.20	97TH	
42.56	98TH	16.76			
43.63	99TH	17.18	42.96	98TH	16.91
43.03	SAIN	11.18	43.35	99TH	17.07

# (72) KNEE HEIGHT, MIDPATELLA

The vertical distance between a standing surface and the midpatella landmark at the center of the right knee is measured with an anthropometer. The subject stands erect with the heels together and the weight distributed equally on both feet.





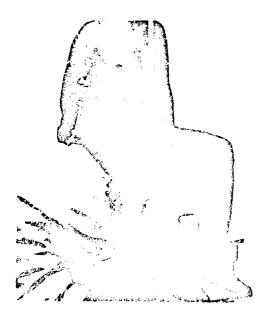
VARIABLE NO. 72—KNEE HEIGHT, MILPATELIA

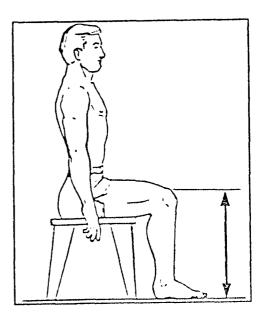
# FEMALES

			<del></del>	<del></del>	
THE SUI	MARY STATI	ISTICS INCHES	THE SUI	MARY STATE	STICS INCHES
			CIMILITATI		LINCINA
47.16			50.37		19.83
	SE (MEAN)		0.11		0.04
1.68	ST DEV	0.66	2.52	ST DEV	0.99
0.07	SE(SD)	0.03	0.08	SE(SD)	0.03
	MINIMUM		43.80		
53.60	MIMIXAM	21.10	57.90	MUMIXAM	22.80
	VARIATION	3.6%	COEFF. OF	VARIATION	5.0%
SYMMETRY—	VETA I	0.61	SYMMETRY-	VETA I	0.19
KURIOSIS-	VETA II	3.58	KURTOSIS	VETA II	2.77
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
I	PERCENTILES		-	EDOWNIE DC	
CENTIMETE		INCHES		PERCENTILES	
CENTIFICE	20	THORES	CENTIMETI	ws .	INCHES
43.89	1ST	17.28	45.15	1ST	17.78
44.22	2ND	17.41	45.63	2ND	17.97
44.43	3RD	17.49	45.95	3RD	18.09
44.71	5TH	17.60	46.41	5TH	18.27
45.16	10TH	17.78	47.17	10TH	18.57
45.48	15TH	17.90	47.72	15TH	18.79
45.74	20TH	18.01	48.17	20TH	18.96
45.97	25TH	18.10	48.57	25TH	19.12
46.18	30TH	18.18	48.93	30TH	19.12
46.39	35TH	18,26			
46.59	40TH	18.34	49.28	35TH	19.40
46.79	451H		49.61		19.53
			49.94	45TH	19.66
46.99	50TH	18.50	50.27	50TH	19.79
47.20	55TH	18.58	50.60	55TH	19.92
47.42	60TH	18.67	50.94	60TH	20.06
47.65	65'1H	18.76	51.29	65TH	20.19
47.90	70TH	18.86	51.67	70TH	20.34
48.18	75TH	18.97	52.08	75TH	20.50
48.50	HT08	19.09	52.53	80011	20.68
48.89	85TH	19.25	53.06	HTC8	20.89
49.40	90TH	19.45	53.72	90TH	21.15
50.20	95TH	19.76	54.67	95TH	21.52
50.74	97TH	19.98	55.27	97TH	21.76
51.16	98TH	20.14			
51.82	99TH	20.14	55.69 56.31	98TH	21.92
21.02	JJIN	40.40	56.31	99TH	22.17

#### (73) KNEE HEIGHT, SITTING

The vertical distance between a footrest surface and the suprapatella landmark at the top of the right knee (located and drawn while the subject stands) is measured with an anthropometer. The subject sits with the thighs parallel, the knees flexed 90 degrees, and the feet in line with the thighs.





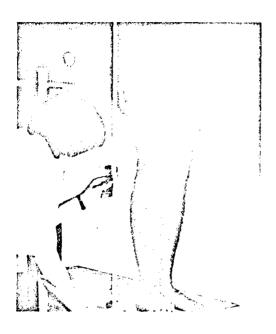
# VARIABLE NO. 73-KNEE HEIGHT, SITTING

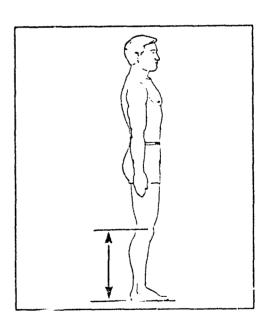
#### FEMALES

mm	AGEN COMM	·			
THE SUMMARY STATISTICS			Mary Stati		
CENTIMETE	rco.	INCHES	CENTIMETE	· COL	INCHES
52.83	MEAN	20.80	55,90	MEAN	22.01
	SE (MEAN)			SE (MEAN)	
		0.68		ST DEV	
0.07	ST DEV SE(SD)	0.03	0.08	SE(SD)	0.03
	(,			22 (21)	0.00
	MINIMUM		48.80	MINIMUM MAXIMUM	19.21
60.00	MAXIMIM	23.62	63.20	MAXIMUM	24.88
COEFF. OF	T/ADTAMTCAT	2 28	OFFE OF	VARIATION	4 68
SYMMETRY		0.66		VETA I	
KURTOSIS-		3.87		VEIA II	
TOTALO	ADIW II	3.57	WHO IS	VLIA II	2.75
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
-	Y 7 ~ Y N 377 F 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	•	-	~~~~~	
CENTIMETE	ERCENTILES	INCHES		PERCENIILES	
CENTIMETE	rcs.	TIVUTES	CENTIMETE	uro .	INCHES
49.50	1ST	19.49	50.20	1ST	19.77
49.84	2ND	19.62	50.94	2ND	
50.05	3RD	19.71	51.37	3RD	20.23
50.34	5TH	19.82	51.92	5TH	20.44
50.79	10TH	26.00	52.73	10TH	20.76
51.11	10TH 15TH	20.12	53.27	10TH 15TH	20.97
51.37	20TH	20.22	53.71	20TH	21.14
51.60	25TH	20.32	54.09		
51.82		20.40	54.44		
52.03			54.78		
52.23	40TH	20.48 20.56	55.10		21.69
52.44	45TH	20.64	55.43		
52.64	50TH		55.75	50TH	
52.86		20.81	56.09		
53.08			56.43		
53.32	60TH 65TH	20.99		60TH 65TH	22.22
53.57	70TH	20.33	56.80	HICO	22.30
		21.09	57.19		22.52
53.86	75TH		57.62	75TH	
54.19	80TH	21.33	58.11	HIOS	
54.58	85TH	21.49	58.67	85TH 90TH	23.10
55.09	90TH	21.69	. 59.38		
55.88	95TH	22.00	60.39		
56.40	97'IH	22.20	60.98		
56.78		22.36	61.38	98TH	24.17
57.39	99TH	22.59	61.91	99TH	24.37

# (74) LATERAL FEMORAL EPICCNDYLE HEIGHT

The vertical distance between a standing surface and the standing lateral-femoral-epicondyle landmark on the outside of the right knee is measured with an anthropometer. The subject stands erect with the heels together and the weight distributed equally on both feet.





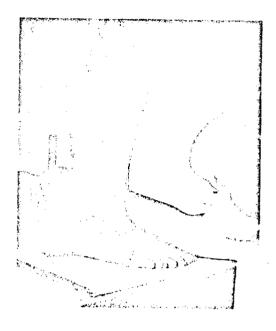
# VARIABLE NO. 74—LATERAL FEMERAL EPICONDYLE HEIGHT

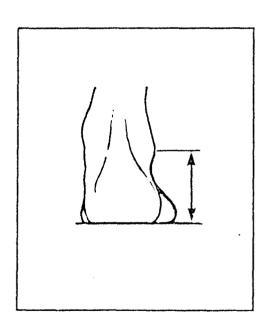
# FEMALES

THE SUMM				MARY STATI	
CENTIMETER	5	INCHES	CENTIMET	ERS	INCHES
47.30	MEAN	18.62	50.44	MEAN	19.86
		0.03	0.11	SE (MEAN)	0.04
	ST DEV	0.64	2.42	ST DEV	0.95
0.06		0.02	0.08		
42.00.3	MUMINIM	17.24	44.60	MUNIMUM	17.56
53.40 1	MUMIIXAM	21.02	57.30	MAXIMUM	22.50
COEFF. OF V	ARIATION			VARIATION	
SYMMETRY		0.55	SYMMETRY-	VETA I	0.16
KURTOSIS-	-VETA II	3.59	KURTOSIS-	VETA II	2.71
NUMBER OF S	UBJECTS	334	NUMBER OF	SUBJECTS	487
		<del></del>			<del></del>
PE	RCENTILES	;	;	PERCENTILES	1
CENTIMETER	S	INCHES	CENTIMET	ERS	INCHES
44.04	1ST	17.34	45.27	1ST	17.82
44.37	<b>2ND</b>	17.47	45.77	2ND	
44.58	3RD	17.55	46.10		18.15
44.86	5TH	17.66	46.57	5TH	18.34
45.32	10TH	17.84	47.34	10TH	18.64
45.65	15TH	17.97	47.88	15TH	18.85
45.91	20TH	18.07	48.32		19.02
46.14	25TH	18.17	48.71		
46.36	301H	18.25	49.07		19.32
46.56	3.⊽ग्रम	18.33	49.41		
46.76	40TH	18.41	49.73	40TH	19.58
46.96	45TH	18.49	50.04		19.70
47.16	50TH	18.57	50.36	50TH	19.83
47.37	55TH	18.65	50.68		19.95
47.58	60TH	18.73	51.00		20.08
47.80	65TH	18.82	51.34	65TH	
48.04	70TH	18.91	51.69		
48.31	75TH	19.02	52.08		
48.62	80TH	19.14	52.51		20.67
48.98	85TH	19.28	53.00		20.87
49.45	90TH	19.47	53.62	901H	21.11
50.18	95TH	19.76	54.52		
	97TH	19.76			
50.67			55.07	3/1H	21.68
51.03	98TH	20.09	55.47		
51.61	99TH	20.32	56.05	99TH	22,07

# (75) LATERAL MALLEOLUS HEIGHT

The vertical distance between a standing surface and the lateral malleolus landmark on the cutside of the right ankle is measured with a modified sliding caliper. The subject stands erect with the heels together and the weight distributed equally on both feet.





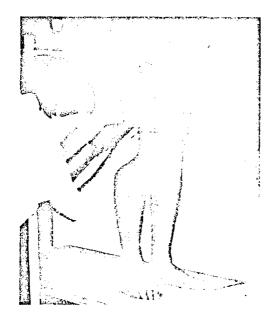
# VARIABLE NO. 75-LATERAL MALLEOLUS HEIGHT

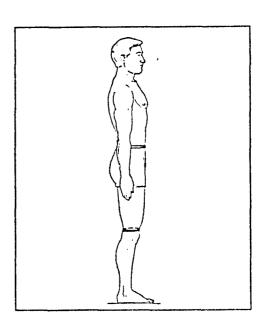
# FEMALES

THE SUM	mary stati	STICS	THE SUM CENTIMETE	MARY STATISTICS
CENTIMETE	RS	INCHES	CENTIMETE	rs inches
6.36	MEAN	2.51		MEAN 2.73
	SE (MEAN)		0.02	SE (MEAN) 0.01
0.52	ST DEV	0.20	0.51	ST DEV 0.20
0.02	SE(SD)	0.01	0.02	SE(SD) C.01
5.00	MUNIMUM	1.97	5.40	MINIMUM 2.13
7.80	MAXIMUM	3.07	8.40	MAXIMUM 3.31
COEFF. OF	TYATITATIYAN	0.00	COTTER OF THE	VARIATION 7.4%
SYMMETRY—				VETA I -0.05
KURTOSIS	VEIA II	2.87	KURIUSIS	-VETA II 2.86
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS 487
-	W. 2.) <b>CALLA STATA TA</b>	•	. •••	
	ERCENTILES	Trans	CENTIMETE P	ERCENTILES
CENTIMETE	<b>1</b> 62	INCLES	CEPTIMETE	rs inches
5.14	1ST	2.02	5.73	1ST 2.26
5.31	2ND		5.88	
5.41	3RD	2.13	5.98	3RD 2.35
5.54	5TH	2.18	6.10	
5.72	10TH	2.25	6.29	
5.83		2.30	6.41	
5.93	20TH	2.33	6.51	
6.01	25TH	2.36	6.59	
6.08	30TH	2.39	6.67	
6.15	35TH	2.42	6.74	35TH 2.65
6.21		2.45	6.81	
6.28	45TH	2.47	6.88	4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
6.34		2.50	6.94	
6.41	55TH	2.50	7.01	501H 2.73
				55TH 2.76 60TH 2.79
6.48	60TH		7.08	
6.55	65TH	2.58	7.15	
6.63	70TH	2.61	7.22	70TH 2.84
6.71		2.64	7.30	
6.81	HIOS	2.68	7.39	
6.92		2.73	<b>7.</b> 49	85TH 2.95
7.06	90TH	2.78	7.62	90TH 3.00
7.27	95TH	2.86	7.79	95TH 3.07
7.39	97TH	2.91	7.89	97TH 3.11
7.47	98TH	2.94	7.97	98TH 3.14
7.58	99TH	2.98	8.06	98TH 3.14 99TH 3.17

#### (76) ICWER THIGH CIRCOMFERENCE

The horizontal circumference of the right thigh at the level of the suprapatella landmark at the top of the knee is measured with a tape. The subject stands erect with the feet about 10 cm apart and the weight distributed equally on both feet.





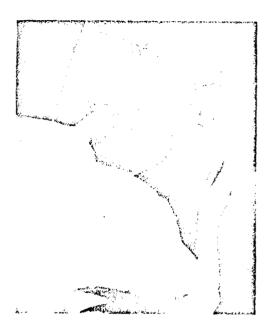
# VARIABLE NO. 76-LOWER THICH CIRCLEFERENCE

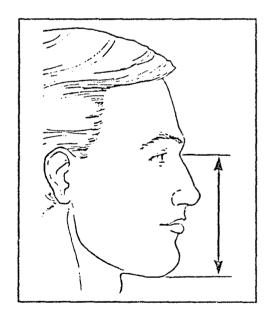
# FEMALES

THE SUN CENTIMETE	mary stati Rs	STICS INCHES	THE SUMMARY ST CENTIMETERS	PATISTICS INCHES
38.21	MEAN	15.04	39.06 MEAN	15.38
0.15	SE (MEAN)		0.11 SE(ME	N) 0.04
2.78	ST DEV	1.10		V 0.94
0.11	SE (SD)	0.04	C.08 SE(SI	0.03
		12.72	33.20 MINIM	
47.20	MAXIMUM	18.58	45.90 MAXIM	JM 18.07
	VARIATION		COEFF. OF VARIAT	
SYMMETRY-		0.40	SYMMETRY——VETA	
KURIOSIS-	VETA II	3.02	KURIOSISVETA	II 2.59
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECT	rs 487
]	PERCENTILES	5	PERCENT	ILES
CENTIMETI	īrs	INCHES	CENTIMETERS	INCHES
32.84	1ST	12.93	34.13	ST 13.44
33.18	2ND	13.06	34.61 21	VD 13.62
33.45	3RD	13.17	34.92 31	RD 13.75
33.90	5TH	13.34	35.34 5	TH 13.91
34.69	10TH	13.66	36.04 103	TH 14.19
35.28	15TH	13.89	36.54 157	TH 14.38
35.77	20TH	14.08	36.95 20	TH 14.55
36.21	25TH	14.26	<b>37.32 25</b> 5	TH 14.69
36.61	30TH	14.41		TH 14.83
36.98	35TH	14.56	<b>37.98 35</b> 9	TH 14.95
37.34	40TH	14.70	38.30 409	TH 15.08
37.69	45TH	14.84	38.61 457	TH 15.20
38.04	50TH	14.98	38.93 50	TH 15.33
38.40	55TH	15.12	<b>39.25 5</b> 57	
38.76	601H	15.26	39.58 60	TH 15.58
39.13	65TH	15.41	<b>39.9</b> 3 657	TH 15.72
39.53	70TH	15.56	40.30 70	TH 1.5.86
39.97	75TH	15.74	40.70 75	TH 16.02
40.47	HT08	15.94	41.15 80	TH 16.20
41.07	85TH	16.17	41.68 859	TH 16.41
41.86	90TH	16.48	42.33 90	TH 16.67
43.11	95TH	16.97	<b>43.27</b> 955	TH 17.04
44.01	97TH	17.33	<b>43.</b> 84 977	TH 17.26
44.71	98TH	17.60	44.23 985	CH 17.41
45.93	99TH	18.08	44.78 999	TH 17.63

# (77) MENICH-SELLICN LENGTH

The distance between the menton landmark at the bottom of the chin and the sellion landwark at the deepest point of the nasal root depression is measured with a sliding caliper. The teeth are slightly occluded.





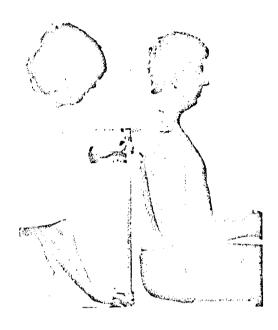
# VARIABLE NO. 77-MENICH-SELLICN LEGIN

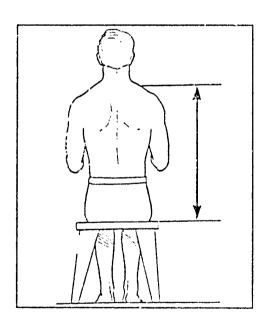
# FEMALES

<del></del>				
	Mary Stati	STICS	THE SUMMARY STAT	TSTICS
CENTIMETE	IRS	INCHES	CENTIMETERS	INCHES
11.46	MEAN	4.51	12.24 MEAN	4.82
0.03	SE (MEAN)	0.01	0.03 SE(MEAN)	
0.61	ST DEV	0.24	0.62 ST DEV	
0.02	SE(SD)	0.01	0.02 SE(SD)	
			5502 52(52)	0.01
	MUNIMUM	3.74	10.70 MINIMUM	4.21
13.20	MAXIMUM	5.20	14.20 MAXIMIM	5.59
COEFF. OF	VARIATION	5.3%	COEFF. OF VARIATION	ĭ 5.1%
SYMMETRY-		0.17	SYMETRY—VETA	
KURTOSIS		3.24	KURIOSIS—VETA II	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2.21	IOIGOID VEIR II	. 4.34
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS	487
•	PERCENTITES	,		
CENTIMETE			PERCENITLE	
CENTIMETE	iko	INCHES	CENTMETERS	INCHES
10.09	1ST	3.97	10.87 1ST	4.28
10.27	2ND	4.04	11.02 2ND	4.34
10.37	3RD	4.08	11.11 3RD	4.37
10.51	5TH	4.14	11.24 5TH	4.42
10.72	101H	4.22	11.44 10TH	
10.85	15TH	4.27	11.58 15TH	4.56
10.96	20TH	4.31	11.70 20TH	
11.05	25TH	4.35	11.80 25TH	
11.13	30TH	4.38	11.89 30TH	
11.21	35TH	4.41	11.97 35TH	
11.28	40TH	4.44	12.06 40TH	
11.36	45TH	4.47	12.14 45TH	
11.43	50TH	4.50	12.21 50TH	
11.50	55TH	4.53	12.30 55TH	
11.58	60TH	4.56	12.38 60TH	
11.65	65TH	4.59	12.46 65TH	
11.74	70TH	4.62		
11.84	75TH			4.94
11.95		4.66	12.65 75TH	
	HI08	4.70	12.76 SOTH	
12.08	85TH	4.75	12.89 85TH	5.08
12.25	90TH	4.82	13.06 90TH	5.14
12.52	95TH	4.93	13.31 95TH	5.24
12.70	97TH	5.00	13.47 97TH	5.30
12.85	98TH	5.06	13.59 98TH	5.35
13.08	99TH	5.15	13.78 9911	5.43

# (78) MIDSHOULDER HEIGHT, SITTING

The vertical distance between a sitting surface and the midshoulder landmark at the top of the right shoulder is measured with an anthropometer. The subject sits erect looking straight ahead. The shoulders and upper arms are relaxed and the forearms and hands are extended forward horizontally with the palms facing each other. The measurement is taken at the maximum point of quiet respiration.





# VARIABLE NO. 78-MILERCULLER HEIGHT, SITTING

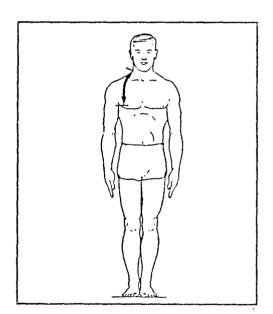
#### FEMALES

THE SUM	MARY STAT	ISTICS	THE CT	MMARY STAT	Termina
CENTIMETE		INCHES	CENTIMET		
		1114111	CENTIMET	EKO .	INCHES
60.65	MEAN	23.88	64.04		
0.12	SE (MEAN)		64.24		
2.28	,			SE (MEAN)	
	ST DEV		2.74	ST DEV	1.08
0.09	SE(SD)	0.03	0.09	SE(SD)	0.03
54.40	MINIMUM	21.42	E4 70	3/73/73 # # #	
	MAXIMUM			MINIMUM	
	TEMELION:	21.52	72.30	MUMIXAM	28.46
COEFF. OF		3.8%	COEFF. OF	VARIATION	4.3%
SYMMETRY-		0.02	SYMMETRY-		
KURTOSIS	-VETA II	3.10		VETA II	
			1010010	ATTEL TT	3.23
NUMBER OF S	SUBJECTS	334	NUMBER OF	SUBJECTS	487
			_		10.
***		_	· · · · · · · · · · · · · · · · · · ·		······
	RCENTILES	_	1	PERCENTILES	5
CENTIMETER	రు	INCHES	CENTIMET	ERS .	INCHES
55.00					
55.31	1ST	21.78	56.94	1ST	22.42
55.90	2ND	22.01	58.07	2ND	22.86
56.29	3RD	22.16	58.74	3RD	
56.83	5TH	22.37	59.58		23.46
57.67	10TH	22.71	60.76	10TH	23.40
58.25	15TH	22.93	61.50		
58.71	20TH	23.11		15TH	24.21
59.11	25TH	23.27	62.06	201H	
59.46	30TH	23.41	62.53	25TH	24.62
59.79			62.94	30TH	24.78
60.10	35TH	23.54	63.31	35TH	24.92
	40TH	23.66	63.66	40TH	25.06
60.40		23.78	63.99	45TH	25,19
60.70	50TH	23.90	64.32	50TH	25.32
60.99	55TH	24.01	64.64	55TH	25.45
61.28	60TH	24.13	64.97	60TH	25.58
61.58	65TH	24.25	65.31	65TH	
61.90	70TH	24.37	65.67		
62.23	75TH	24.50		701H	25.85
62.60	80TH		66.05	75TH	26.01
63.02	85TH	24.81	66.49	80TH	26.18
63.54	90TH		66.99	85TH	26.38
64.26		25.01	67.64	901H	26.63
	95TH		68.60	95TH	27.01
64.71	97TH	25.48	69.22	97TH	27.25
65.03	98TH		69.68	98TH	27.43
65.50	99TH	25.79	70.39	99TH	27.71
					· · · · · <del>-</del>

#### (79) NECK-HISTPOINT/THELICN LENGTH

The distance between the trapezius landmark at the right side of the neck and the right bustpoint landmark on women or the right nipple (thelion) on men is measured with a tape. The subject stands erect looking straight ahead. The shoulders and upper extremities are relaxed. The measurement is taken at the maximum point of quiet respiration.





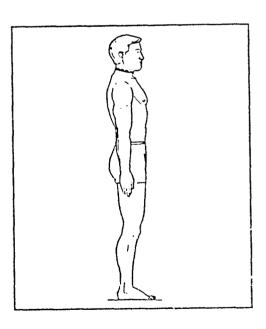
VARIABLE NO. 79—NECK-BUSTPOINT/THELICN LENGTH
FEMALES MALES

			<del> </del>		
THE SUN	Mary Stati	STICS	THE SUMM	ary stati	STICS
CENTIMETE	TRS .	INCHES	CENTIMETER		INCHES
27.38	MEAN	10.78	28.07	MEAN	11.05
0.12		0.05		SE (MEAN)	0.03
2.28	ST DEV	0.90	1.70	ST DEV	0.67
0.09	SE(SD)	0.03	0.05	SE(SD)	0.02
0003	02(00)	0.03	0.03	DE (DD)	0.02
20.90	MINIMUM	8.23		MUMINIM	
34.70	MAXIMUM	13.66	33.80	MAXINUM	13.31
COEFF. OF	VARIATION	8.3%	COEFF. OF V	ARTATTON	6.1%
SYMMETRY-		0.26	SYMMETRY		0.16
KURTOSIS-		3.09	FURTOSIS-		2.78
NUMBER OF	STRIFT	334	NUMBER OF S	ייייעדפייי	487
		334	NOTICE OF S	מואנמנ	407
-	WWW. WWW. W. T. W.				
	PERCENTILES			RCENTILES	
CENTIMETE	HO	INCHES	CENTIMETER	3	INCHES
22.54	1ST	8.87	24.36	1ST	9.59
23.03	2ND	9.07	24.76	2ND	9.75
23.35	3RD	9.19	25.01	3RD	9.85
23.81	51H	9.37	25.35	51 <b>H</b>	9.98
24.54	10TH	9.66	<b>25.8</b> 9	101H	10.19
25.05	15TH	9.86	26.26	15TH	10.34
25.45	20IH	10.02	26.57	20TH	10.46
25.81	25TH	10.16	26.84	25TH	10.57
26.13	30TH	10.29	27.10	30TH	10.67
26.43	35TH	10.41	27.33	35TH	10.76
26.72	40TH	10.52	27.56	401H	10.85
27.00	45TH	10.63	27.78	45TH	10.94
27.28	50TH	10.74	28.01	50TH	11.03
27.56	55TH	10.85	28.24	55TH	11.12
27.84	60TH	10.96	28.47	60TH	11.21
28.14	65TH	11.08	28.72	65TH	11.31
28.46	70TH	11.21	28.98	70TH	11.41
28.82	75TH	11.35	29.26	75TH	11.52
29.22	80TH	11.50			
29.69	85TH	11.69	29.57	HI08	11.64
30.32			29.93	85TH	11.78
	90TH	11.94	30.38	901H	11.96
31.29	95TH	12.32	31.00	95TH	12.20
31.97	97TH	12.59	31.36	97TH	12.35
32.49	98TH	12.79	31.61	98TH	12.45
33.36	99TH	13.13	31.94	99TH	12.58

#### (80) NECK CIRCUMFERENCE

The circumference of the neck at the level of the infrathyroid landmark (Adam's apple) is measured with a tape. The plane of the measurement is perpendicular to the long axis of the neck. The subject stands erect with the head in the Frankfort plane. The shoulders and upper extremities are relaxed.





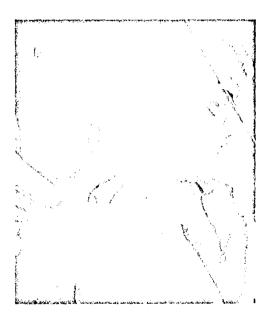
# VARIABLE NO. 80—NECK CURCUMFERENCE

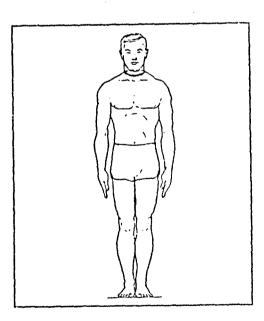
#### FEMALES

THE SUN	MARY STAT	ומייזרפ	HELD CHREADY CON	mrcmrc
CENTIMETE		INCHES	THE SUMMARY STA	
OCE 12 22 22 22		THOTES	CENTIMETERS	INCH
31.74	MEAN	12.50	38.01 MEAN	34
0.09	SE (MEAN)	0.03		
	ST DEV		0.08 SE(MEAN	•
0.06	SE(SD)	0.03	1.78 ST DEX	
0.00	SE(SD)	0.02	0.06 SE(SD)	0.0
27,20	MINIMUM	10 71	33.40 MINIMUN	* 12
37.20				
-,,,,,	11401	14405	42.90 MAXIMUN	1 16.8
COEFF. OF	VARIATION	5.0%	COEFF. OF VARIATIO	N A
SYMMETRY-		0.45	SYMMETRY——VETA	I 0.3
KURTOSIS-		3.62	KURIOSIS——VETA I	
		2.02	WIGOID VEIA 1	.1 4.1
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS	48
			HOLLER OF BODDING	, 40
P	ERCENTILES	3	PERCENTULI	FS
CENTIMETE	RS	INCHES	CENTIMETERS	INCHE
				11,011
28.38	1ST	11.17	34.37 1SI	13.5
28.74	2ND	11.32	34.75 2ND	
28.98	3RD	11.41	34.99 3RD	
29.31	51H	11.54	35.31 577	
29.82	10TH	11.74	35.81 10TH	
30.16	15TH	11.88	36.17 15TH	
30.44	20TH	11.98		
30.67	25TH	12.08		
30.89		12.16	36.72 25TH	
31.08			36.96 30TH	
	35TH	12.24	37.20 35TH	
31.27	40TH	12.31	37.42 40TH	
31.45	45TH	12.38	37.65 45TH	
31.64	50TH	12.46	37.88 50IH	14.9
31.82	55TH	12.53	38.11 55TH	15.0
32.01	601H	12.60	38.35 60TH	
32.21	65TH	12.68	38.61 65TH	15.2
32.43	70TH	12.77	38.88 70TH	
32.67	75TH	12.86	39.19 75TH	
32.96	BOTH	12.98	39.53 80IH	
33.30	85TH	13.11	39.93 85TH	
33.77	90TH	13.29	40.44 90TH	
34.54	95TH	13.60		
35.11	97TH	13.82		
35.57	98TH	14.00	41.65 97TH	
36.37			41.97 98TH	
30.37	99TH	14.32	42.44 99TH	16.7

# (81) NECK CIRCLMFERENCE, PASE

The circumference of the base of the neck is measured with a tape passing over the drawn lateral and anterior neck landmarks. The subject stands erect with the head in the Frankfort plane. The shoulders and upper extremities are relaxed.





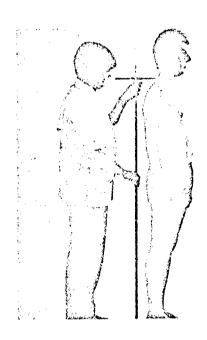
VARIABLE NO. 81—NECK CIRCINFERENCE, BASE

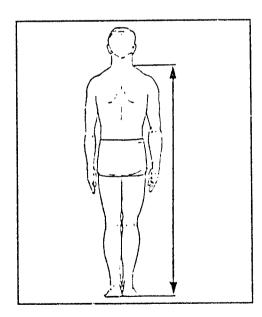
#### FEMALES

			•		
	MARY STAT		THE SU	MARY STAT	ISTICS
CENTIMETE	rs	INCHES	THE SUI	ers	INCHES
24.04					
34.96			40.83		
0.09		0.03		SE (MEAN)	
1.58	ST DEV	0.62	1.84	ST DEV	0.73
0.06	SE(SD)	0.02	0.06	SE(SD)	0.02
29.90	MINIMUM	11.77	35 30	MINIMIM	13.90
	MUMIXAM		45.90		
			43.30	THE PARTICULAR	10.07
COEFF. OF	VARIATION		COEFF. OF	VARIATION	4.5%
SYMMETRY-	VETA I	0.21	SYMMETRY-		0.24
KURTOSIS	-VETA II	3.11	KURTOSIS-		
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
P.	ERCENTILES	3	Ţ	ERCENTILES	3
CENTIMETE	RS	INCHES	CENTIMETE		INCHES
31.52	1ST	12.41	36.84	ıst	14.50
31.91	2ND	12.56	37.35	2ND	
32.15	3RD	12.66	37.65	3RD	
32.48	51 <b>H</b>	12.79	38.03	5TH	
33.00	10TH	12.99	38.59		15.19
33.35	15TH	13.13	38.96		
33.62	20TH	13.24	39.26	20TH	15.46
33.87	25TH	13.33	39.53		
34.09	30TH	13.42	39.78	30TH	15.66
34.30	35TH	13.50	40.01	<del>-</del>	15.75
34.50	40TH	13.58	40.24	40TH	
34.70	45TH	13.66	40.47	45TH	15.84
34.89	50TH	13.74	40.79		
35.09	55TH	13.82		50TH	16.02
35.29	60TH	13.90	40.94	55TH	16.12
35.51	65TH	13.98	41.19	601H	16.22
35.74		14.07	41.45	65TH	16.32
			41.73	70TH	16.43
35.99	75TH	14.17	42.04	75TH	16.55
36.28	80TH	14.28	42.40	8011I	16.69
36.62	85TH	14.42	42.82	85TH	16.86
37.05	90TH	14.59	43.36	90TH	17.07
37.73	951H	14.85	44.14	95 <b>TH</b>	17.38
38.17	97TH	15.03	44.62	971H	17.57
38.51		15.16	44 .95		17.70
<b>39.0</b> 5	99IH	15.37	45.42	99TH	17.88

#### (82) NECK HEIGHT, LATERAL

The vertical distance between a standing surface and the trapezius landmark on the right side of the neck is measured with an anthropometer. The subject stands erect with the head in the Frankfort plane. The heels are together with the weight distributed equally on both feet. The shoulders and upper extremities are relaxed. The measurement is taken at the maximum point of quiet respiration.





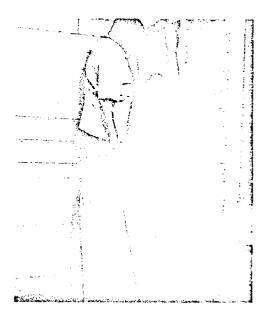
# VARIABLE NO. 82—NECK HEIGHF, LATERAL

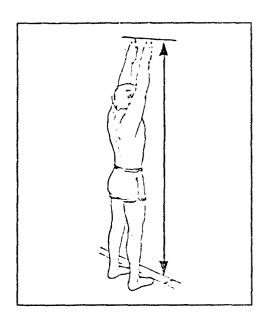
# FEMALES

THE SUM	Mary Stat	ISTICS	THE SUM	Mary Stati	STICS
CENTIMETE	RS	INCHES	CENTIMETE	RS	INCHES
144.07	MEAN	56.72	152.22	MEAN	59.93
0.22	SE (MEAN)	0.09	0.27	SE (MEAN)	0.10
4.05	ST DEV	1.59	5.87	ST DEV	
0.16	SE(SD)	0.06	0.19		0.07
	MUNIMUM		134.90	MINIMUM	53.11
161.30	MAXIMUM	63.50	167.70	MAXIMUM	6ú.02
COEFF. OF			COEFF. OF	VARIATION	3.9%
SYMMETRY-		0.45	SYMMETRY	VETA .	-0.02
KURTOSIS	VETA II	3.63	KURIOSIS	VETA II	2.78
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
P	ERCENTILES	5		ERCENTILES	
CENTIMETE	RS	INCHES	CENTIMETE		INCHES
135.07		53.18	138.26	1ST	54.43
136.31	2ND	53.67	140.05	2ND	55.14
137.02	3RD	53.95	141.14	3RD	55.57
137.91	5TH	54.30	142.55	5TH	56.12
139.18	10TH	54.80	144.67	107H	56.96
140.01	15TH	55.12	146.08	15TH	57.51
140.67	20TH	55.38	147.19	20TH	57.95
141.25	25TH	55.61	148.17	25TH	58.33
141.77	30TH	55.82	149.04	30TH	58.63
142.27	35TH	56.01	149.86	35TH	59.00
142.76	40TH	56.21	150.65	40TH	59.31
143.25	45TH	56.40	151.41	45TH	59.61
143.74	50TH	56.59	152.17	50TH	59.91
144.25	55TH	56.79	152.94	55'IH	60.21
144.77	60TH	57.00	153.72	60TH	60.52
145.33	65TH	57.22	154.54	65TH	60.84
145.94	70TH	57.45			
146.61	75TH	57.72	155.40	70TH	61.18
147.37	80TH	58.02	156.33	75TH	61.55
148.28	85TH		157.36	HT08	61.95
		58.38	158.55	85TH	62.42
149.44	90TH	58.84	160.01	90TH	63.00
151.15	95TH	59.51	162.05	95TH	63.80
152.22	97TH	59.93	163.25	97TH	64.27
152.97	98TH	60.23	164.04	98TH	64.58
154.05	99TH	60.65	165.11	99TH	65.00

#### (83) OVERHEAD FINGERTIP REACH

The vertical distance between a standing surface and the tip of the right middle finger when the arm is extended overhead is measured on a wall scale. The subject stands facing a wall-mounted scale with both arms extended overhead parallel to each other. The toes are 20 cm from the wall and the feet are about 10 cm apart. The palms of the hands rest on the scale. A block is placed against the tip of the finger to establish the measurement. The measurement is taken at the maximum point of quiet respiration.





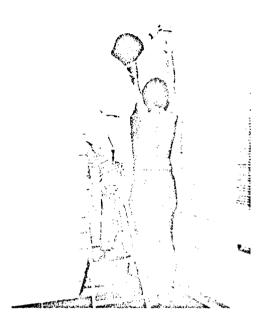
#### VARIABLE NO. 83—OVERHEAD FINGERTIP REACH

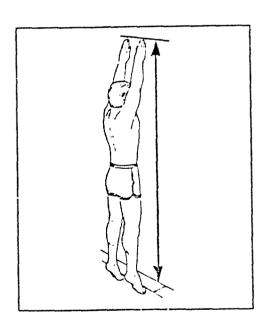
# FEMALES

	MARY STAT			Mary Stati	
CENTIMETE	RS	INCHES	CENTIMETE	RS	INCHES
212.23	MEAN	83.55	224.26	MEAN	88.29
0.33			0.41		
	ST DEV	2.41	9.09	ST DEV	
0.24	SE(SD)	0.09	0.29		0.11
0.24	DE(DD)	0.05	0.23	511(55)	0.11
198.10	MUNIMUM	77.99	200.50	MUNIMUM	78.94
237.60	MUMIXAM	93.54	250.80	MAXIMUM	98.74
COEFF. OF	VARTATTON	2.9%	COEFF. OF	VARTATTON	4.1%
SYMMETRY		0.60	SYMMETRY—		0.06
KURTOSIS-		3.70	KURIOSIS-		2.78
1010010	, man an	3175	10110010	1221 22	2.,0
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
F	ERCENTILES	3		ERCENTILES	2
CENTIMETE		INCHES	CENTIMETE		INCHES
		1,1021120		10	THOME
200.59	1ST	78.97	203.52	1ST	80.12
201.55	2ND	79.35	205.81	2ND	81.03
202.21	3RD	79.61	207.29	3RD	81.61
203.17	5TH	79.99	209.31	57H	82.41
204.80	10TH	80.63	212.49	10TH	83.66
205.99	15TH	81.10	214.66	15TH	84.51
206.98	20TH	81.49	216.40	20TH	85.20
207.87	25TH	81.84	217.92	25TH	85.80
208.69	30TH	82.16	219.29	301H	86.34
209.48	35TH	82.47	220.57	35TH	86.84
210.24	40TH	82.77	221.79	40TH	87.32
210.99	45TH	83.07	222.97	45TH	
211.75	50TH	83.37	224.15	50TH	88.25
212.52	55TH	83.67	225.33	55TH	
213.32	60TH	83.98	226.52	60TH	
214.16	65TH	84.31	227.77	65TH	
215.05	70TH	84.67	229.08	70TH	
216.04	75TH	85.05	230.50	75TH	
217.15	80TH	85.49	232.09	80TH	91.38
218.46	85TH	86.01	233.93	85TH	
220.15	90TH	86.67	236.25	90TH	93.01
222.67	95TH	87.66	239.63	95TH	
224.31	97TH	88.31	241.78	97TH	
225.52	98TH	88.79	243.33	98TH	
227.40	99TH	69.53	245.71	99TH	96.74
22/.40	73111	در ، رن	240.71	22111	20.74

#### (84) OVERHEAD FINGERITP REACH, EXTENDED

The vertical distance between a standing surface and the tip of the right middle finger when the arm is extended overhead as high as possible is measured on a wall scale. The subject stands on his/her toes facing a wall-mounted scale with both arms parallel and extended overhead as high as possible. The toes are 20 cm from the wall and the feet are about 10 cm apart. The palms of the hands rest on the scale. A block is placed against the tip of the finger to establish the measurement. The measurement is taken at the maximum point of quiet respiration.





# VARIABLE NO. 84—OVERHEAD FINGERITP REACH, EXTENDED

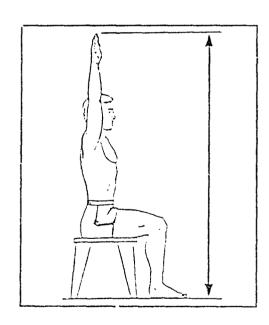
# FEMALES

CENTIMETERS         INCHES         CENTIMETERS         INCHES           221.64         MEAN         87.26         234.17         MEAN         92.19           0.34         SE (MEAN)         0.13         0.42         SE (MEAN)         0.17           6.22         ST DEV         2.45         9.29         ST DEV         3.66           0.24         SE (SD)         0.09         C.30         SE (SD)         0.12           209.10         MINIMUM         82.32         208.90         MINIMUM         82.24           246.40         MAXIMUM         97.01         262.10         MAXIMUM         103.19           COEFF. OF VARIATION         2.8%         COEFF. OF VARIATION         4.0%         SYMMETRY—VETA         I         0.06           KURTOSIS——VETA         I         0.62         SYMMETRY—VETA         I         0.06           KURTOSIS——VETA         I         3.58         KURTOSIS——VETA         II         2.77           PERCENTILES           CENTIMETERS         INCHES         CENTIMETERS         INCHES           209.71         1ST         82.56         213.29         1ST         83.97           210.88         2ND         83.02
6.22 ST DEV 2.45 9.29 ST DEV 3.66 0.24 SE(SD) 0.09 C.30 SE(SD) 0.12  209.10 MINIMUM 82.32 208.90 MINIMUM 82.24 246.40 MAXIMUM 97.01 262.10 MAXIMUM 103.19  COEFF. OF VARIATION 2.8% COEFF. OF VARIATION 4.0% SYMMETRY—VETA I 0.62 SYMMETRY—VETA I 0.06 KURTOSIS—VETA II 3.58 KURTOSIS—VETA II 2.77  NUMBER OF SUBJECTS 334 NUMBER OF SUBJECTS 487  PERCENTILES FERCENTILES CENTIMETERS INCHES  209.71 1ST 82.56 213.29 1ST 83.97 210.88 2ND 83.02 215.62 2ND 84.89 211.62 3RD 83.31 217.09 3RD 85.47 212.62 5TH 83.71 219.09 5TH 86.25 214.22 10TH 84.34 222.21 10TH 87.49 215.36 15TH 84.79 224.37 15TH 88.34 216.32 20TH 85.16 226.11 20TH 89.02 217.18 25TH 85.51 227.64 25TH 89.62 217.99 30TH 85.82 229.03 30TH 90.17
6.22 ST DEV 2.45 9.29 ST DEV 3.66 0.24 SE(SD) 0.09 C.30 SE(SD) 0.12  209.10 MINIMUM 82.32 208.90 MINIMUM 82.24 246.40 MAXIMUM 97.01 262.10 MAXIMUM 103.19  COEFF. OF VARIATION 2.8% COEFF. OF VARIATION 4.0% SYMMETRY—VETA I 0.62 SYMMETRY—VETA I 0.06 KURTOSIS—VETA II 3.58 KURTOSIS—VETA II 2.77  NUMBER OF SUBJECTS 334 NUMBER OF SUBJECTS 487  PERCENTILES FERCENTILES CENTIMETERS INCHES  209.71 1ST 82.56 213.29 1ST 83.97 210.88 2ND 83.02 215.62 2ND 84.89 211.62 3RD 83.31 217.09 3RD 85.47 212.62 5TH 83.71 219.09 5TH 86.25 214.22 10TH 84.34 222.21 10TH 87.49 215.36 15TH 84.79 224.37 15TH 88.34 216.32 20TH 85.16 226.11 20TH 89.02 217.18 25TH 85.51 227.64 25TH 89.62 217.99 30TH 85.82 229.03 30TH 90.17
6.22 ST DEV 2.45 9.29 ST DEV 3.66 0.24 SE(SD) 0.09 C.30 SE(SD) 0.12  209.10 MINIMUM 82.32 208.90 MINIMUM 82.24 246.40 MAXIMUM 97.01 262.10 MAXIMUM 103.19  COEFF. OF VARIATION 2.8% COEFF. OF VARIATION 4.0% SYMMETRY—VETA I 0.62 SYMMETRY—VETA I 0.06 KURTOSIS—VETA II 3.58 KURTOSIS—VETA II 2.77  NUMBER OF SUBJECTS 334 NUMBER OF SUBJECTS 487  PERCENTILES FERCENTILES CENTIMETERS INCHES  209.71 1ST 82.56 213.29 1ST 83.97 210.88 2ND 83.02 215.62 2ND 84.89 211.62 3RD 83.31 217.09 3RD 85.47 212.62 5TH 83.71 219.09 5TH 86.25 214.22 10TH 84.34 222.21 10TH 87.49 215.36 15TH 84.79 224.37 15TH 88.34 216.32 20TH 85.16 226.11 20TH 89.02 217.18 25TH 85.51 227.64 25TH 89.62 217.99 30TH 85.82 229.03 30TH 90.17
0.24         SE(SD)         0.09         C.30         SE(SD)         0.12           209.10         MINIMUM         82.32         208.90         MINIMUM         82.24           246.40         MAXIMUM         97.01         262.10         MAXIMUM         103.19           COEFF. OF VARIATION         2.8%         COEFF. OF VARIATION         4.0%           SYMMETRY—VETA         I         0.06         KURIOSIS—VETA         I         0.06           KURIOSIS—VETA         II         3.58         KURIOSIS—VETA         II         2.77           NUMBER OF SUBJECTS         334         NUMBER OF SUBJECTS         487           PERCENTILES           CENTIMETERS         INCHES         CENTIMETERS         INCHES           209.71         1ST         82.56         213.29         1ST         83.97           210.88         2ND         83.02         215.62         2ND         84.89           211.62         3RD         83.31         217.09         3RD         85.47           212.62         5TH         83.71         219.09         5TH         86.25           214.22         10TH         84.34         222.21         10TH         87.49
246.40 MAXIMUM       97.01       262.10 MAXIMUM       103.19         COEFF. OF VARIATION       2.8%       COEFF. OF VARIATION       4.0%         SYMMETRY—VETA I       0.62       SYMMETRY—VETA I       0.06         KURTOSIS—VETA II       3.58       KURTOSIS—VETA II       2.77         NUMBER OF SUBJECTS       334       NUMBER OF SUBJECTS       487         PERCENTILES         CENTIMETERS       INCHES       CENTIMETERS       INCHES         209.71       1ST       82.56       213.29       1ST       83.97         210.88       2ND       83.02       215.62       2ND       84.89         211.62       3RD       83.31       217.09       3RD       85.47         212.62       5TH       83.71       219.09       5TH       86.25         214.22       10TH       84.34       222.21       10TH       87.49         215.36       15TH       84.79       224.37       15TH       88.34         216.32       20TH       85.16       226.11       20TH       89.02         217.18       25TH       85.51       227.64       25TH       89.62         217.99       30TH       85.82       229.0
246.40 MAXIMUM       97.01       262.10 MAXIMUM       103.19         COEFF. OF VARIATION       2.8%       COEFF. OF VARIATION       4.0%         SYMMETRY—VETA I       0.62       SYMMETRY—VETA I       0.06         KURTOSIS—VETA II       3.58       KURTOSIS—VETA II       2.77         NUMBER OF SUBJECTS       334       NUMBER OF SUBJECTS       487         PERCENTILES         CENTIMETERS       INCHES       CENTIMETERS       INCHES         209.71       1ST       82.56       213.29       1ST       83.97         210.88       2ND       83.02       215.62       2ND       84.89         211.62       3RD       83.31       217.09       3RD       85.47         212.62       5TH       83.71       219.09       5TH       86.25         214.22       10TH       84.34       222.21       10TH       87.49         215.36       15TH       84.79       224.37       15TH       88.34         216.32       20TH       85.16       226.11       20TH       89.02         217.18       25TH       85.51       227.64       25TH       89.62         217.99       30TH       85.82       229.0
NUMBER OF SUBJECTS   334   NUMBER OF SUBJECTS   487
NUMBER OF SUBJECTS   334   NUMBER OF SUBJECTS   487
NUMBER OF SUBJECTS   334   NUMBER OF SUBJECTS   487
PERCENTILES CENTIMETERS INCHES  CENTIMETERS INCHES  CENTIMETERS INCHES  209.71 1ST 82.56 213.29 1ST 83.97 210.88 2ND 83.02 215.62 2ND 84.89 211.62 3RD 83.31 217.09 3RD 85.47 212.62 5TH 83.71 219.09 5TH 86.25 214.22 10TH 84.34 222.21 10TH 87.49 215.36 15TH 84.79 224.37 15TH 88.34 216.32 20TH 85.16 226.11 20TH 89.02 217.18 25TH 85.51 227.64 25TH 89.62 217.99 30TH 85.82 229.03 30TH 90.17
CENTIMETERS         INCHES         CENTIMETERS         INCHES           209.71         1ST         82.56         213.29         1ST         83.97           210.88         2ND         83.02         215.62         2ND         84.89           211.62         3RD         83.31         217.09         3RD         85.47           212.62         5TH         83.71         219.09         5TH         86.25           214.22         10TH         84.34         222.21         10TH         87.49           215.36         15TH         84.79         224.37         15TH         88.34           216.32         20TH         85.16         226.11         20TH         89.02           217.18         25TH         85.51         227.64         25TH         89.62           217.99         30TH         85.82         229.03         30TH         90.17
CENTIMETERS         INCHES         CENTIMETERS         INCHES           209.71         1ST         82.56         213.29         1ST         83.97           210.88         2ND         83.02         215.62         2ND         84.89           211.62         3RD         83.31         217.09         3RD         85.47           212.62         5TH         83.71         219.09         5TH         86.25           214.22         10TH         84.34         222.21         10TH         87.49           215.36         15TH         84.79         224.37         15TH         88.34           216.32         20TH         85.16         226.11         20TH         89.02           217.18         25TH         85.51         227.64         25TH         89.62           217.99         30TH         85.82         229.03         30TH         90.17
211.62       3RD       83.31       217.09       3RD       85.47         212.62       5TH       83.71       219.09       5TH       86.25         214.22       10TH       84.34       222.21       10TH       87.49         215.36       15TH       84.79       224.37       15TH       88.34         216.32       20TH       85.16       226.11       20TH       89.02         217.18       25TH       85.51       227.64       25TH       89.62         217.99       30TH       85.82       229.03       30TH       90.17
211.62       3RD       83.31       217.09       3RD       85.47         212.62       5TH       83.71       219.09       5TH       86.25         214.22       10TH       84.34       222.21       10TH       87.49         215.36       15TH       84.79       224.37       15TH       88.34         216.32       20TH       85.16       226.11       20TH       89.02         217.18       25TH       85.51       227.64       25TH       89.62         217.99       30TH       85.82       229.03       30TH       90.17
211.62       3RD       83.31       217.09       3RD       85.47         212.62       5TH       83.71       219.09       5TH       86.25         214.22       10TH       84.34       222.21       10TH       87.49         215.36       15TH       84.79       224.37       15TH       88.34         216.32       20TH       85.16       226.11       20TH       89.02         217.18       25TH       85.51       227.64       25TH       89.62         217.99       30TH       85.82       229.03       30TH       90.17
212.62     5TH     83.71     219.09     5TH     86.25       214.22     10TH     84.34     222.21     10TH     87.49       215.36     15TH     84.79     224.37     15TH     88.34       216.32     20TH     85.16     226.11     20TH     89.02       217.18     25TH     85.51     227.64     25TH     89.62       217.99     30TH     85.82     229.03     30TH     90.17
215.36     15TH     84.79     224.37     15TH     88.34       216.32     20TH     85.16     226.11     20TH     89.02       217.18     25TH     85.51     227.64     25TH     89.62       217.99     30TH     85.82     229.03     30TH     90.17
215.36     15TH     84.79     224.37     15TH     88.34       216.32     20TH     85.16     226.11     20TH     89.02       217.18     25TH     85.51     227.64     25TH     89.62       217.99     30TH     85.82     229.03     30TH     90.17
217.18 25TH 85.51 227.64 25TH 89.62 217.99 30TH 85.82 229.03 30TH 90.17
217.18 25TH 85.51 227.64 25TH 89.62 217.99 30TH 85.82 229.03 30TH 90.17
217.99 30TH 85.82 229.03 30TH 90.17
218.77 35TH 86.13 230.34 35TH 90.68
219.53 40TH 86.43 231.59 40TH 91.18 220.29 45TH 86.73 232.81 45TH 91.66
219.53       40TH       86.43       231.59       40TH       91.18         220.29       45TH       86.73       232.81       45TH       91.66
221.06 50TH 87.03 234.03 50TH 92.14
221.86 55TH 87.35 235.25 55TH 92.62
222.69 60TH 87.67 236.50 60TH 93.11
223.57 65TH 88.02 237.80 65TH 93.62
223.57       65TH       88.02       237.80       65TH       93.62         224.52       70TH       88.39       239.17       70TH       94.16
225.56 75TH 88.80 240.65 75TH 94.75
226.76 80TH 89.28 242.31 80TH 95.40
228.16 85TH 89.83 244.19 85TH 96.14
229.96       90TH       90.54       246.53       90TH       97.06         232.60       95TH       91.58       249.82       95TH       98.36
234.26 97TH 92.23 251.79 97TH 99.13
235.44 98TH 92.69 253.13 98TH 99.66
237.16 99TH 93.37 255.01 99TH 100.40

#### (85) OVERHEAD FINGERTIP REACH, STITING

The vertical distance between a sitting surface and the tip of the right middle firger of a seated subject whose arm is extended overhead is measured on a wall scale. The subject sits erect on a flat surface 40.8 cm high with the right arm and hand extended vertically overhead as far as possible and the palm of the hand facing forward. Neither the back nor the arm touches a wall. A block placed at the tip of the middle finger spans the distance between the finger and the wall and establishes the measurement on the wall scale. The measurement is made at the maximum point of quiet respiration.





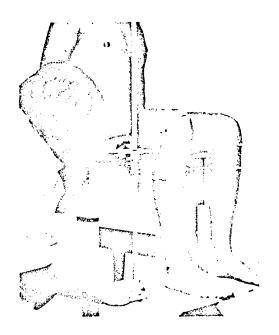
# VARIABLE NO. 85—OVERHEAD FINGERITP REACH, SITTING

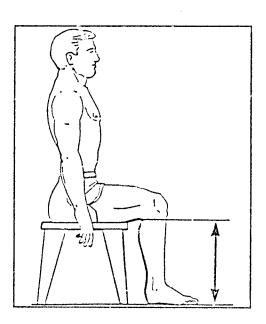
# FEMALES

THE SUM CENTIMETER	iary <i>s</i> iaii S	ISTICS INCHES	THE SUM CENTIMETE	Mary Stati Rs	STICS INCHES
	SE (MEAN) ST DEV	0.09 1.62	143.99 0.25 5.58 0.18	SE (MEAN) ST DEV	0.10 2.20
	MUNIMIM MUNIXAM			MINIMUM MAXIMUM	
COEFF. OF V	VARIATION	3.0%	COEFF. OF	VARIATION	3.9%
COEFF. OF V	-VETA I	0.21	SYMMETRY-		
KURTOSIS		3.16	KURIOSIS		
NUMBER OF S	SUBJECIS	334	NUMBER OF	SUBJECTS	487
PF	RCENTILES	5	I	ERCENTILES	S
CENTIMETER	ঙ	INCHES	CENTIMETE	RS	INCHES
127.00	1ST	50.00	130.74	1ST	51.47
128.09	2ND	50.43	132.35	2ND	51.47 52.10
128.77	3RD		133.35	3RD	
129.68	5TH		134.70	5TH	53.03
131.05	10TH		136.75		
131.98	15TH	51.96	138.13		
132.72	20TH	52.25	139.21	15TH 20TH	54.81
133.37	25TH	52.51	140.15		
133.95	25TH 30TH	52.74	140.99	30TH	55.51
1.34.50	35TH		141.77		
135.02	40TH		142.51		
135.54	45TH	53.36	143.23	40TH 45TH	56.39
136.05	50TH	53.56	143.95	50TH	56.67
136.57	55TH	53.77	144.66	55TH	56.95
137.11	60TH	53.98	145.38	60IH	57.24
137.67	65TH		146.13	65TH	
138.27	70TH		146.93	70TH	57.84
138.92	75TH	54.69	147.78	75TH	58.18
139.67	75TH 80TH	54.99	148.75	HI08	58.56
140.54	85TH		149.86	85TH	
141.67	90TH		151.26	90TH	
143.36		56.44	153.31		
144.46			154.62		
145.27	97TH 98TH	57.19	155.57		61.25
	991H		157.02	99TH	

# (86) POPLIZEAL HEIGHT

The vertical distance from a footrest surface to the back of the right knee (the popliteal fossa at the dorsal juncture of the right calf and thigh) is measured with an anthropometer. The subject sits with the thighs parallel, the feet in line with the thighs, and the knees fleved 90 degrees.





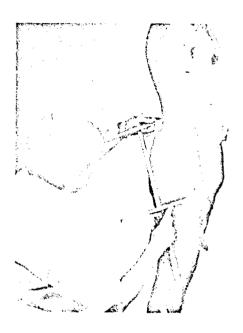
# VARIABLE NO. 86-POPLITEAL HEIGHT

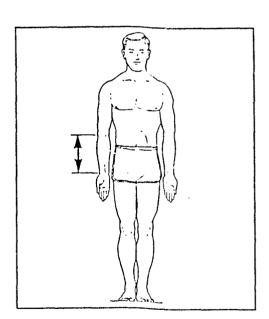
# FEMALES

THE SUM	MARY STATI	STICS	THE SUM	MARY STATI	ISTICS
CENTIMETE	RS .	INCHES	CENTIMETE	RS	INCHES
40.06	MEAN	15.77	43.21	MEAN	17.01
0.09	SE (MEAN)	0.03	0.11	SE (MEAN)	0.04
1.62	ST DEV	0.64		ST DEV	
0.06	SE(SD)	0.02	0.07	SE(SD)	0.03
0.00	02(00)	0.02		55(55)	0.00
36.30	MUNIMUM	14.29	36.70	MINIMUM	14.45
45.80	MAXIMUM	18.03	49.50	MINIMUM MAXIMUM	19.49
COEFF. OF	VARIATION	4.0%	COEFF. OF	VARIATION	5.4%
SYMMETRY-	VETA I	0.39	SYMMETRY-	-VETA I	0.22
KURTOSIS-	VETA II	3.15	KURTOSIS-	VETA II	2.90
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
_	ERCENTILES	3	F	ERCENTILE	3
CENTIMETE	RS	INCHES	CENTIMETE	RS	INCHES
36.82	1ST	14.50 14.61	37.82	1ST 2ND	14.89
37.11	2ND	14.61	38.65	2ND	15.22
37.31	3RD	14.69	39.10	3RD 5TH	15.40
37.60	5TH	14.80	39.66	5TH	15.61
38.07	10TH		40.42	10TH	15.91
38.41	15TH	15.12 15.23	40.89	1577	16.10
38.69	20TH	15.23	41.27	15TH 20TH	16.25
38.93	25TH	15.33	41.60	25TH	16.38
39.16	30TH	15.42	41.90	3 ೧೩೭೩	16.50
39.37	35TH	15.50	42.18	35TH	16.61
39.57			42.46	40TH	16.72
39.77	45TH	15.58 15.66	42.74		16.83
39.97	50TH		43.03	50TH	16.94
40.17	55774	15.81	43.32	551156	17.05
40.37	601H	15.90	43.63	60TH	17.18
49.59	65TH	15.98	43.95	65TH	17.30
40.82	70TH		44.31		17.44
41.08	75TH		44.70		
41.37			45.15		
41.71	HTC8 HTC8	16.42	45.68		17.78
42.17	90TH		46.36		
42.17	95TH	16.88	47.33		18.63
43.36	97TH		47.92		18.86
43.73	00441 2/1U	17.02		Oouri NIT	10.00
	98TH HTCC	17 40	48.31		19.02
44.35	99TH	17.46	48.83	99TH	19.23

#### (87) RADIALE-STYLION LENGTH

The distance between the radiale landmark on the right elbow and the stylion landmark on the right wrist is measured with a beam caliper held parallel to the long axis of the forearm. The subject stands with the arms relaxed at the sides. The hand and fingers are held straight in line with the long axis of the forearm.





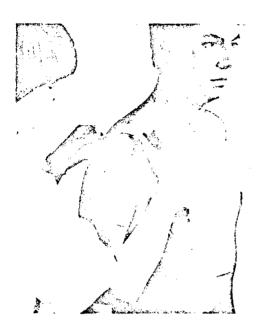
# VARIABLE NO. 62 - PADIALE-STYLION LENGTH

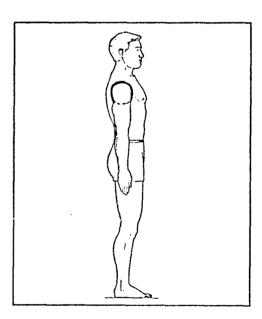
# **FEMALES**

				***************************************
THE SUM	MARY STATI		THE SUMMARY STATES	
CENTIMETE	CA.	INCHES	CENTIMETERS 1	NCHES
24.70	MEAN	9.72	26.84 MEAN	10.57
0.05	SE (MEAN)	0.02	0.06 SE (MEAN)	0.02
	ST DEV	0.37	1.37 ST DEV	0.54
0.04	SE(SD)	0.01	0.04 SE(SD)	0.02
	(/	0.02	0.04 55(55)	0.02
22.50	MUNIMUM	8.86	23.00 MINIMUM	9.06
28.60	MAXIMUM	11.26	30.80 MEXIMUM	12.13
COEFF. OF		3.8%	COEFF. OF VARIATION	5.1%
SYMMETRY—		0.64	SYMMETRY—VETA I	0.15
KURTOSIS	VETA II	3.71	KURIOSISVETA II	2.91
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS	487
· · · · · · · · · · · · · · · · · · ·	<del></del>			
P	ERCENTILES	3	PERCENTILES	
CENTIMETE	RS	INCHES		NCHES
22.97	1ST	9.04	23.85 1ST	9.39
23.12	2ND	9.10	24.16 2ND	9.51
23.22	3RD	9.14	24.36 3RD	9.59
23.36	5TH	9.20	24.65 5TH	9.70
23.60	10TH	9.29	25.11 10TH	
23.77	15TH	9.36	and the second s	10.01
23.91	20TH	9.41		10.11
24.04	25TH	9.46		10.20
24.16	30TH	9.51		10.28
24.27	35TH	9.56		
24.38	40TH	9.60		10.35
24.49	45TH	9.64		10.42
24.61	50TH			10.49
		9.69		10.56
24.72	55TH	9.73		10.62
24.84	60TH	9.78		10.69
24.97	65TH	9, 83		10.76
25.11	70TH	9.89		10.84
25.27	75TH	9.95	27.74 751H	10.92
25.45	HT08	10.02	27.97 80IH	11.01
25.66	85TH	10.10		11.12
25.95	90TH	10.21		11.26
26.39	95TH	10.39		11.48
26.59	97TH	10.51		11.63
26.92	98TH	10.60		11.75
27.28	99TH	10.74		11.94
	-		20122 2211	

#### (88) SCYE CIRCUMFERENCE

The vertical circumference of the right upper arm (scye) is measured with a tape passing through the ampit and over the acromion landmark on the tip of the shoulder. The subject stands erect looking straight ahead. The shoulders and upper extremities are relaxed with the palms facing the thighs.





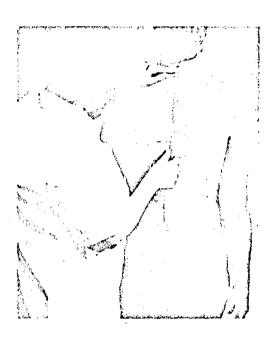
# VARIABLE NO. 88—SCYE CIRCUMFERENCE

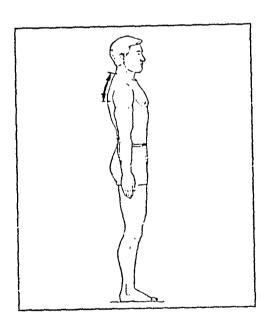
#### FEMALES

			<del>-</del>			
	mary stati	STICS		THE SUM	mary stati	STICS
CENTIMETE	RS	INCHES	C	ENTIMETE	TRS .	INCHES
38.02	MEAN	14.97		44.65	MEAN	17.58
0.13	SE (MEAN)	0.05		0.10	SE (MEAN)	0.04
2.30	ST DEV	0.91		2.28	ST DEV	0.90
0.09	SE(SD)	0.04		0.07	SE(50)	0.03
0.05	52(55)	0.04		0.07	DIT(OD)	0.05
32.30	MINIMUM	12.72		38.40		
45.20	MAXIMUM	17.80		51.00	MAXIMUM	20.08
COEFF. OF	VARIATION	6.1%	$\infty$	EFF. OF	VARIATION	5.1%
SYMMETRY-	VETA I	0.34			VETA I	
KURIOSIS-	VETA II	3.14	KUI	RIOSIS—	VETA II	2.82
NUMBER OF	SUBJECTS	334	NUI	MBER OF	SUBJECTS	487
<del></del>	***************************************		-			
F	ERCENTILES	;		F	ERCENTILES	;
CENTIMETE	RS	INCHES	a	ENTIMETE	RS	INCHES
32.82	1ST	12.92		39.53	1ST	15.56
33.53	2ND	13.20		40.07	2ND	
33.94	3RD	13.36		40.43	3RD	15.92
34.46	5TH	13.57		40.93	5TH	
35.20	1011	13.86		41.72	10TH	16.42
35.69	15TH	14.05		42.26	15TH	16.64
36.07	20TH	14.20		42.69	20TH	16.81
36.40	25TH	14.33		43.07	25TH	16.96
36.71	30TH	14.45		43.41	30TH	
36.99	35TH	14.56		43.73		
37.27	40TH	14.67			35TH	17.22
37.55	45TH	14.78		44.03	40TH	
37.83				44.32	45TH	17.45
	50TH	14.89		44.61	50TH	17.56
38.12	55TH	15.01		44.89	551H	17.67
38.42	601H	15.13		45.19	60TH	17.79
38.74	65TH	15.25		45.49	65TH	17.91
39.09	70TH	15.39		45.81	70TH	18.04
39.48	75TH	15.54		46.16	75TH	18.17
39.92	80TH	15.72		46.56	HT08	18.33
40.45	85TH	15.93		47.02	85TH	18.51
41.14	90TH	16.20		47.61	90TH	18.74
42.18	95TH	16.61		48.52	95TH	19.10
42.86	97TH	16.87		49.13	97TH	19.34
43.35	98TH	17.07		49.59	98TH	19.53
44.10	99TH	17.36		50.36	99TH	19.83

#### (89) SCYE DEPIH

The surface distance along the spine between the cervicale landmark on the base of the back of the neck and the scye-level-at-midspine landmark is measured with a tape. The subject stands erect with the head in the Frankfort plane. The shoulders and upper extremities are relaxed.





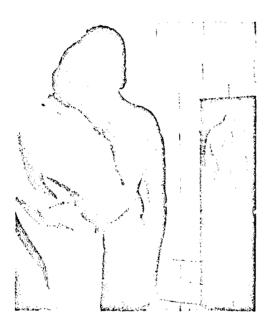
## VARIABLE NO. 89-SCYE DEPIH

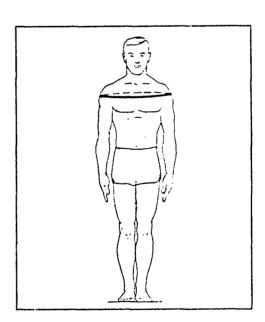
## FEMALES

			<del></del>		
THE SUM	Mary stati	STICS	THE SUMM	ARY STATISTICS	
CENTIMETE		INCHES	CENTIMETER		
19.23	MEAN	7.57	21.81	MEAN 8.59	
0.08	SE (MEAN)	0.03		SE(FITAN) 0.02	
1.46	ST DEV	0.57		ST DEV 0.54	
0.06	SE(SD)	0.02	0.04	SE(SD) 0.02	
	` ,		5,001	32(32)	
14.70	MUNIMUM	5.79	16.80	MINIMUM 6.61	
22.90	MAXIMUM	9.02		AXIMUM 10.28	
			20120	2200011 20120	
COEFF. OF	VARIATION	7.6%	COEFF. OF V	ARIATION 6.3%	
SYMMETRY		0.21	SYMMETRY-		
KURIOSIS	VETA II	2,75	KURTOSIS		
				VIIII 11 3113	
NUMBER OF	SUBJECTS	334	NUMBER OF ST	JBJECTS 487	
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
					_
P	ERCENTILES	3	PE	RCENTILES	
CENTIMETE	RS	INCHES	CENTIMETER		
16.38	1ST	6.45	18.82	1ST 7.41	
16.64	2ND	6.55	19.14	2ND 7.53	
16.80	3RD	6.61	19.34	3RD 7.62	
17.03	5TH	6.71	19.63	5TH 7.73	
17.42	10TH	6.86	20.09	10TH 7.91	
17.70	15TH	6.97	20.41	<b>15TH</b> 8.03	
17.94	20IH	7.06	20.66	20TH 8.13	
18.16	25TH	7.15	20.88	25TH 8.22	
18.36	30TH	7.23	21.08	30TH 8.30	
18.56	35TH	7.31	21.27	35TH 8.37	
1.8.75	40TH	7.38	21.45	40TH 8.44	
18.94	45TH	7,46	21.62	45TH 8.51	
19.13	50TH	7.53	21.79	50TH 8.58	
19.33	55TH	7.61	21.56	55TH 8.65	
19.53	60TH	7.69	22.14	60TH 8.72	
19.74	65TH	7.77	22.32	65TH 8.79	
19.97	70TH	7.85	22.51	70TH 8.86	
20.22	75TH	7.96	22.72	75TH 8.94	
20.50	80TH	8.07	22,95	80TH 9.04	
20.83	85TH	8.20	23.22	85TH 9.14	
21.23	90TH	8.36	23.57	90TH 9.28	
21.80	95TH	8.58	24.08	95TH 9.48	
22.14	97TH	8.72	24.42	97TH 9.61	
22.37	98TH	8.81	24.67	98TH 9.71	
22.68	99TH	8.93	25.07	99TH 9.87	
			23.07	22777 2.01	

#### (90) SHOULDER CIRCUMFERENCE

The horizontal circumference of the shoulders at the level of the maximum protrusion of the right deltoid muscle is measured with a tape. The subject stands erect looking straight ahead. The shoulders and upper extremities are relaxed with the palms facing the thighs. The measurement is taken at the maximum point of quiet respiration.





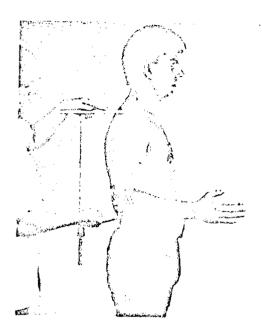
## VARIABLE NO. 90—SHOULDER CIRCUMFERENCE

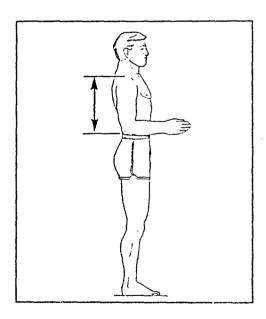
## FEMALES

			<del></del>		
THE SUM	Mary Stati			SUMMARY STAT	
CENTIMETE	T.O.	INCHES	CENTII	ÆTERS	INCHES
104.12	MEAN	40.99	117.	.50 MEAN	46.26
	SE (MEAN)			24 SE (MEAN)	
5.22	ST DEV	2.05		34 ST DEV	
0.20	SE(SD)	0.08		.17 SE(SD)	
				•	
	MUNIMUM		100		
126.10	MAXIMUM	49.65	132.	.90 MAXIMUM	52.32
COEFF. OF	VARIATION	5.0%	COEFF.	OF VARIATION	4.5%
SYMMETRY-	VETA I	0.35	SYMMET	RYVETA I	0.10
KURTOSIS	VETA II	3.54		ISVETA II	
NUMBER OF	SUBJECTS	334	NUMBER	OF SUBJECTS	487
			<del></del>		····
F	ERCENTILES	;		PERCENTILE	s
CENTIMETE	RS	INCHES	CENTIL	ÆTERS	INCHES
•					
92.84	1ST		105.		
94.23	2ND	37.10		.22 2ND	
95.06	3RD	37.42	108.		
96.13	5TH	37.85	109.		
97.74	10TH	38.48	111.		
98.83	15TH	38.91	112.	.13 15TH	44.14
99.70	20TH	39.25	113.	.03 20TH	44.50
100.47	251H	39.56	113.		44.81
101.18	30TH	39.84	114.	.55 30TH	45.10
101.85	35TH	40.10	115.	.24 35TH	45.37
102.50	40TH	40.35	115.	91 40TH	45.63
103.14	45TH	40.61	116.	.57 45TH	45,89
103.80	50TH	40.86	117.	.24 50TH	46.16
104.46	55Th	41.13	117.	.93 55TH	46.43
105.15	60TH	41.40	118.	64 60TH	46.71
105.87	65TH	41.68	119.	.38 65TH	47.00
106.65	70TH	41.99	120.	.19 70TH	47.32
107.51	75TH	42.33	121.	.07 75TH	
108.48	HT08	42.71	122.		
109.61	85TH	43.16	123.		
111.06	90TH	43.72	124		
113.15	95TH	44.55	126.		
114.45	97 <b>TH</b>	45.06	127.		
115.35	98TH	45.41	128.		
116.65	99TH	45.92	129.		51.15
			129	2211	J1.1J

## (91) STOULDER-FILEON LENGTH

The distance between the acromion landmark on the tip of the right shoulder and the olecranon landmark on the bottom of the right elbow is measured with a beam caliper parallel to the long axis of the upper arm. The subject stands with the right upper arm hanging at the side and the elbow flexed 90 degrees. The hand is straight and the palm faces inward.





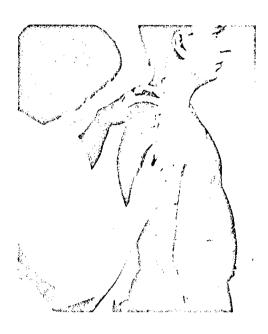
#### VARIABLE NO. 91—SHULLER-ELECW LENGTH

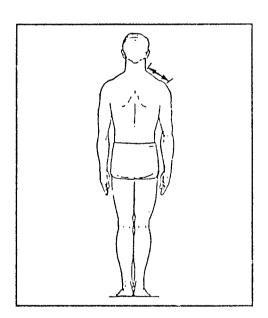
## FEMALES

THE SUM	iary stati	STITES	गमार द्वार	Mary Stati	जग <i>र</i>
CENTIMETER		INCHES	CENTIMETE	rs Rs	INCHES
24 62	3077337	10.60	27.40		
34.62	MEAN SE (MEAN)	13.63	37.18	MEAN SE (MEAN)	14.64
			0.08	SE (MEAN)	0.03
1.19	ST DEV	0.47		ST DEV	
0.05	SE(SD)	0.02	0.06	SE (SD)	0.02
	MUNIMUM		32.50	MINIMUM	
38.40	MAXIMUM	15.12	42-50	MAXIMUM	16.73
COEFF. OF V	VARIATION	3.4%	COEFF. OF	VARIATION	4.7%
SYMMETRY	-VETA I	0.61	SYMMETRY-		
KURIOSIS-	-VETA II	3.14	KURTOSIS-		2.86
NUMBER OF S	SUBJECTS	334	NUMBER OF	SUBJECTS	487
			 		········
	RCENTILES	_		PERCENTILES	
CENTIMETER	క	INCHES	CENTIMETE	RS	INCHES
32.26	1ST	12.70	33.26	1ST	13.09
32.55	2ND	12.82	33.70		13.27
32.72	3RD	12.88	33.98	3RD	13.38
32.93	5TH	12.97	34.38	5TH	13.53
33.24	10TH	13.09	34.99	10TH	13.78
33.45	15TH	13.17	35.41	15TH	13.94
33.62	201H	13.23	35.74	20TH	14.07
33.77	25TH	13.29	36.02	25TH	14.18
33.91	30TH	13.35	36.28	30TH	14.28
34.05	35TH	13.41	36.52	35TH	14.38
34.19	40TH	13.46	36.74	40TH	14.46
34.33	45TH	13.51	36.96	45TH	14.55
34.47	30TH	13.57	37.18	50TH	14.64
34.62	55TH	13.63	37.39	55TH	14.72
34.78	60TH	13.69	37.61	60TH	14.81
34.95	65TH	13.76	37.84	65TH	14.90
35.13	70TH	13.83	38.08	70TH	14.99
35.34	75TH	13.91	38.34	75TH	15.09
35.58	HT08	14.01	38.63	HTOS	15.21
35.87	85TH	14.12	38.98	85TH	
35.26	90TH	14.27	39.41	90TH	15.52
36.84	95TH	14.50	40.08	95TH	
37.21	97TH	14.65	40.52	97TH	15.95
37.48	98TH	14.76	40.85	98TH	16.08
37.89	99TH	14.92	41.38	99TH	

## (92) SHOULDER LENGTH

The surface distance between the trapezius landmark at the base of the side of the neck and the acromion landmark on the tip of the right shoulder is measured with a tape. The subject stands looking straight ahead. The shoulders and upper extremities are relaxed.





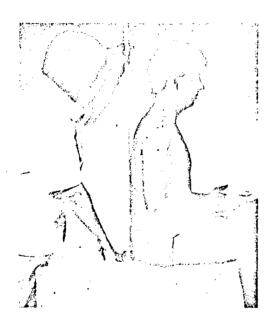
## VARIABLE NO. 92—SHOULDER LENGTH

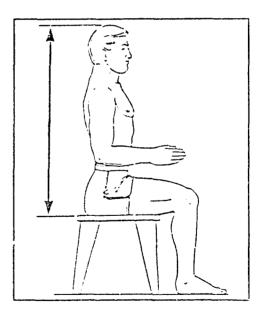
## FEMALES

THE SUM	MARY STATI	STICS		THE SUM	MARY STAT	ISTICS
CENTIMETE	RS	INCHES		CENTIMETE	RS	INCHES
	•					
14.69	MEAN	5.78		15.41	MEAN	6.07
	SE (MEAN)	0.02		0.05		0.02
	ST DEV	0.43		1.01		0.40
0.04	SE(SD)	0.02		0.03	SE (SD)	0.01
11.70	MINIMUM	4.61		12.70	MINIMUM	5.00
	MAXIMUM	7.17		18,40	MAXIMUM	
20,20				20110		,
COEFF. OF	VARIATION	7.4%		COEFF. OF	VARIATION	6.6%
SYMMETRY-	VETA I	0.06		SYMMETRY-	VETA I	0.07
KURTOSIS		3.13		KURTOSIS-		
NUMBER OF	SUBJECTS	334		NUMBER OF	SUBJECTS	487
		····	_	<del></del>		
171	COLOCONALITY I TO C					-
	ERCENTILES			_	ERCENTILE	
CENTIMETE	162	INCHES		CENTIMETE	uro.	INCHES
11.99	1ST	4.72		13.09	1ST	5.15
12.37	2ND	4.87		13.38	2ND	
12.60	3RD	4.96		13.56	3RD	5.34
12.89	51H	5.07		13.79	57th	5.43
13.30	10TH	5.24		14.13		5.56
					10111	
13.57	15TH	5.34		14.35	15TH	5.65
13.78	20TH	5.42		14.54	201H	5.73
13.95	25TH	5.49		14.70	25TH	5.79
14.11	30TH	5.56		14.85	30TH	5.85
14.26	35TH	5.61		14.99	35TH	5.90
14.40	40TH	5.67		15.12	40TH	5.95
14.54	45TH	5.72		15.25	45TH	6.00
14.67	50TH	5.78		15.38	50111	
14.81	55TH	5.83		15.52	55TH	6.11
14.95	60TH	5.89		15.65	60TH	
15.09	65TH	5.94		15.79	657H	
15.25	70TH	6.00		15.95	701H	6.28
15.42	75TH	6.07		16.11	75TH	6.34
15.61	HTOS	6.15		16.30	HTOS	6.42
15.83	85TH	6.23		16.51	85TH	6.50
16.12	90TH	6.35		16.78	9011	€.60
16.53	95TH	6.51				
				17.15	95TH	
16.80	97TH	6.61		17.37	97TH	
16.98	98TH	6.69		17.52	987H	6.90
17.26	99TH	6.80		17.71	99TH	6.97

#### (93) STITING HEIGHT

The vertical distance between a sitting surface and the top of the head is measured with an anthropometer. The subject sits erect with the head in the Frankfort plane. The shoulders and upper arms are relaxed and the forearms and hands are extended forward horizontally with the palms facing each other. The thighs are parallel and the knees are flexed 90 degrees with the feet in line with the thighs. The measurement is made at the maximum point of quiet respiration.





# VARIABLE NO. 93—STITING HEIGHT

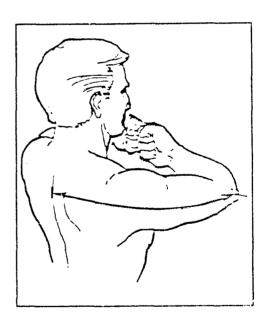
## FEMALES

			<del>-</del>		
	,				
	MMARY STATI			SUMMARY SI	
CENTIMET	ers	INCHES	CENTIL	METERS	INCHES
88,28	MEAN	34.76	92.	.95 MEAN	i 36.59
	SE (MEAN)	0.06		.15 SE (MEA	
2.80		1.10		.32 ST DE	•
0.11		0.04		.11 SE(SI	
0.11	DL (DD)	0.04	0.	TT OF (OF	0.04
80.00	MINIMIM	31.50	81.	.90 MINIM	M 32.24
97.10	MUMIXAM	38.23	102.	.10 MAXIM	M 40.20
COPER. OF	VARIATION	3 2%	<b>○</b> FFF	OF VARIATI	CN 3.6%
SYMMETRY—		-0.02		RY——VETA	
		3.07		ISVETA	
WKICSIS-	VEIA II	3.07	widos.	LSVEIA	11 3.14
NUMBER OF	SUBJECTS	334	NUMEER	OF SUBJECT	S 487
			-		
				FW77~W-3 FYY	TT:
	PERCENTILES			PERCENTI	
CENTIMET	cro	INCHES	CENTI	METERS	INCHES
81.46	1ST	32.07	84.	.40 1.9	T 33.23
82.31	2ND				ID 33.69
82.85	3RD	32.62	86.	.28 3F	D 33.97
83.58	5TH	32.90			H 34.34
84.68	10TH	33.34			H 34.89
85.41	15TH				H 35.25
85.97	20TH	33.85			H 35.53
86.46	25TH	34.04			H 35.76
86.88	30TH				
					H 35.96
87.27	35TH	34.36			H 36.15
87.63	40TH	34.50			H 36.32
87.98	45TH	34.64		.68 451	
88.32	50TH	34.77			H 36.65
88.66	55TH			.49 551	TH 36.81
89.00	60TH	35.04	93.	<b>.</b> 90 601	H 36.97
89.35	65TH	35.18	94.	.31 657	TH 37.13
89.72	70TH	35.32	94.	.75 7M	H 37.30
90.12	75TH	35.48	95.	.21 757	H 37.48
90.56	80TH	35.66		.73 801	H 37.69
91.08	85TH	35.86		.32 857	
91.75	90IH	36.12		.07 901	
92.78	95TH	36.53			H 38.66
93.49	97TH	36.81		.92 971	
94.03	98TH	37.02			
94.03					
94.93	99TH	37.38	100	.35 991	TH 39.51

#### (94) SLEEVE LENGTH: SPINE-ELECN

The horizontal surface distance between the midspine landmark and the olecranon-center landmark on the tip of the raised elbow is measured with a tape. The measurement is made while the subject holds his/her arms up in a horizontal position parallel to the standing surface and joins them by bringing the fists together at the metacarpophalangeal and proximal interphalangeal knuckles. The forearms and fists are in a straight line.





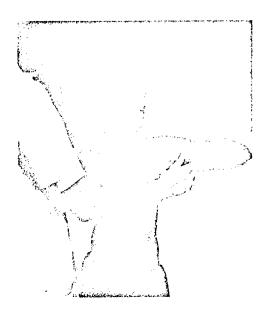
VARIABLE NO. 94—SLEEVE LENGTH: SPINE-ELECM

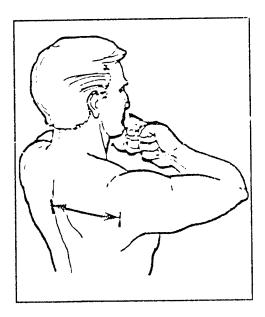
## FEMALES

			<del></del>		<del></del>
	MARY STATI			mary stati	
CENTIMET	ERS	INCHES	CENTIMET	ERS	INCHES
55.31	MEAN	21.78	59.96	MEAN	23.60
0.10	SE (MEAN)	0.04	0.11	SE (MEAN)	0.05
1.92	ST DEV	0.75	2.52		0.99
0.07	SE(SD)	0.03	0.08	SE(SD)	0.03
	(,			(_,	
50.70	MINIMUM	19.96	52.10	MINIMUM	20.51
61.50	MAXIMUM	24.21	67.60	MAXIMUM	26.61
ODEFF. OF	VARIATION	3.5%	COFFF. OF	VARIATION	4.2%
SYMMETRY-		0.01	SYMMETRY—		
	VETA II	2.73		VETA II	3.14
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
			the sale of the sa		
1	PERCENTILES	5	I	PERCENTILES	
CENTIMETE	ERS	INCHES	CENTIMET	ERS	INCHES
50.98	1ST	20.07	54.15	1ST	21.32
51.42	2ND	20.24	54.83	2ND	21.59
51.71	3RD	20.36	55.27	3RD	21.76
52.12	5TH	20.52	55.86	5TH	21.99
52.79	10TH	20.78	56.76		22.35
53.25	15TH	20.97	57.37	15TH	22.59
53.63	20TH	21.12	57.85	20TH	
53.97	25TH	21.25	58.27	25TH	22.94
54.27	30TH	21.36	58.64	30TH	
54.54	35TH	21.47	58.98		23.22
54.81	40TH	21.58	59.30	40TH	
55.07	45TH	21.68	59.61	40111	23.33
				45TH	23.47
55.32	50TH	21.78	59.92	DUIH	23.59
55.58	55TH	21.88	60.23	55TH	
55.84	60TH	21.98	60.55	60TH	23.84
56.10	65TH	22.09	60.88	65TH	23.97
56.38	70TH	22.20	61.22	70TH	24.10
56.68	75TH	22.31	61.60	75TH	24.25
57.01	HTOS	22.44	62.03	HI08	24.42
57.38	85TH	22.59	62.54	85TH	24.62
57.84	90TH	22.77	63.20	90TH	24.88
58.49	95TH	23.03	64.22	95TH	25.28
58.89	97TH	23.18	64.92	97TH	
59.16	98TH	23.10			
			65.46	98TH	25.77
59,57	99TH	23.45	66.35	99TH	26.12

## (95) SLEEVE LENGTH: SPINE-SCYE

The horizontal surface distance between the midspine landmark and the right posterior-diagonal-scye landmark at the back of the raised right arm near the armpit is measured with a tape. The measurement is made while the subject holds his/her arms up in a horizontal position parallel to the standing surface and joins them by bringing the fists together at the metacarpophalangeal and proximal interphalangeal knuckles. The forearms and fists are in a straight line.





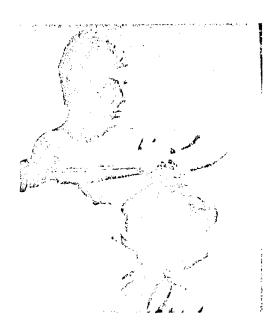
VARIABLE NO. 95-SLEEVE LENGTH: SPINE-SCYR

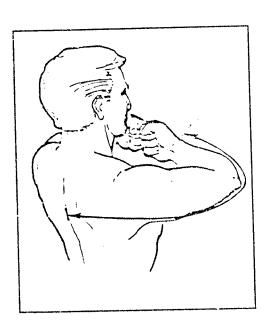
## FEMALES

THE SUM	MARY STATI	STICS	THE SUM	ary stati	STICS
CENTIMETE	rs	INCHES	CEYTIMETER	<b>s</b>	INCHES
21.31	MEAN	8.39	23.50	MEAN	9.25
0.07	SE (MEAN)	0.03	0.06	SE (MEAN)	0.03
	ST DEV		1.41	ST DEV	0.55
0.05	SE(SD)		0.05		
16.70	MUNIMUM	6.57	19.50	MINIMUM	7.68
	MAXTMUM	9.92		MAXIMIM	
COEFF. CF	VARIATION	6.1%	COEFF. OF V	ARLATION	6.0%
SYMMETIRY	VETA I	-0.24	COEFF. OF V SYMMETRY	-VETA I	0.09
KURIOSIS	VETA II	3.63	KURTOSIS		
NUMBER OF	SUBJECTS	334	NUMBER OF S	UBJECTS	487
· · · · · · · · · · · · · · · · · · ·		~			
_		_	-		_
	PERCENTILES			RCENTILES	
CENTIMETE	165	INCHES	CENTIMETER	<b>ವ</b>	INCHES
18.17	1ST	7.15	20.27	1ST	7.98
18.58	2ND	7.13	20.27	2ND	8.10
18.83	3RD	7.42	20.80	300	8.19
19.18	5TH	7.55	21.13	3RD 5TH	8.32
19.69		7.75	21.66		
20.03	15TH	7.89	22.03		
20.29	2011	7.99	22.32	20TH	8.79
20.51	25TH	8.08	22.57		
20.71	30TH	8.15	22.79	25TH 30TH	8.97
20.88		8.22	22.99	35TH	
21.05	40TH	8.29	23.17	40TH	
21.20		8.35	23.35	45TH	9.12
21.36	50TH	8.41	23.52	COTTY	0 26
21.51	55TH	8.47	23.69	55TH	9.33
21.66	60TH	8.53	23.86	60TH	9.40
21.82	65TH	8.59	24.04	65TH	
21.99		8.66	24.22	701H	
22.17	75TH	8.73	24.22	ಇಲಾಬ	0.61
22.37	HT08	8.81	24.63	HI08	9.70
22.61	85TH	8.90	24.88	85TH	9.70
22.91	90TH	9.02	25.21	90TH	9.93
23.40	95TH	9.02	25.74		
23.40	97TH	9.21	25.74 26.12	951H 971H	
23.73	971H 98TH	9.34	26.12 26.43	971H 98TH	10.28
	981H 99TH	9.45			
24.44	AATU	7.02	<b>26.9</b> 8	99TH	10.62

## (96) SIEEVE IFYGIH: SPINE-WRIST

The horizontal surface distance from the midspine landmark, across the olecranon-center landmark at the tip of the raised right elbow, to the dorsal wrist landmark is measured with a tape. The measurement is made while the subject holds his/her arms up in a horizontal position parallel to the standing surface and joins them by bringing the fists together at the metacarpophalangeal and proximal interphalangeal knuckles. The forearms and fists are in a straight line.





VARIABLE NO. 96-SLEEVE LENGTH: SPINE-WRIST

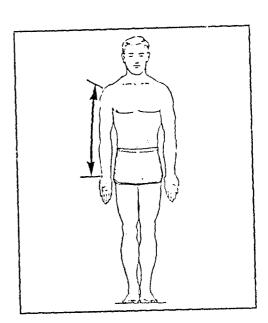
## FEMALES

THE STIM	MARY STAT	र द्राम ८८	מיני, מונות	ARESTOLE CONSTRU	TOTTO
CENTIMETE		INCHES		MMARY STAT	
CHAILTING	- C	TIACUES	CENTIMET	EKS	INCHES
00.55					
82.57			89.50		
	SE (MEAN)	0.05	0.16	SE (MEAN)	0.06
2.45	ST DEV	0.97	3.53	ST DEV	1.39
0.09	SE(SD)	0.04	0.11	SE(SD)	
			-	(,	
77.00	MUNIMUM	30.31	79.60	MUNIMUM	31.34
92.20	MAXLMUM		100.20		
			100.20	TENTION	39.43
COEFF. OF	VARIATION	3.0%	COEFF. OF	VARIATION	3.9%
SYMMETRY	VETA I	0.33	SYMMETRY-	VETA I	
KURTOSIS-	VETA II	3.09		VETA II	
			xwittee15	ATITY II	2.50
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	107
			normality of	DOMECTS	407
P	ERCENITLES	3	1	PERCENTILES	3
CENTIMETE	RS	INCHES	CENTIMET		INCHES
			CCI,IIIIIII		TIMETER
77.62	1ST	30.56	81.83	1ST	32.21
78.06	2ND	30.73	82.57		
78.36	3RD	30.85	83.08		
78.79	5TH	31.02			
79.50	10TH	31.30	83.80		
80.01			84.98	10TH	33.46
	15TH	31.50	85.81		33.78
80.44	20TH	31.67	86.47	20TH	34.04
80.82	25TH	31.82	87.06	25TH	34.27
81.17	30TH	31.96	87.58	30 <b>TH</b>	34.48
81.50	35TH	32.09	88.07	35TH	34.67
81.32	40TH	32.21	88.54		
82.14	45TH	32.34	88.99	45TH	35.03
82.46	50TH	32.46	89.44	501H	35.21
82.78	55TH	32.59	89.89	55TH	35.39
83.11	60TH	32.72	90.34		· <del>-</del>
83.45	65TH	32.86			35.57
83.82	70TH	33.00	90.82	65TH	
84.22	75TH		91.32	70TH	35.95
84.68		33.16	91.86	75TH	
	80TH	33.34	92.48	HTOS	36.41
85.20	85TH	33.54	93.19	85TH	36.69
85.87	90TH	33.81	94.10	90TH	37.05
86.84	95TH	34.19	95.48	95TH	37.59
87.46	97TH	34.43	96.41		
87.90	98TH	34.61	97.11	98TH	38.23
88.57	99TH	34.87	98.24	99TH	38.68
			50.24	22111	20.08

# (97) SLEEVE CUISEAM

The straight-line distance between the acromion landmark on the tip of the right shoulder and the stylion landmark on the right wrist is measured with a tape. The subject stands erect with both arms straight at the sides and the palms facing forward.





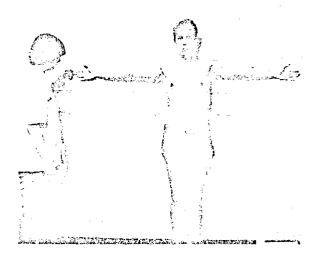
## VARIABLE NO. 97—SIEEVE CUISEAM

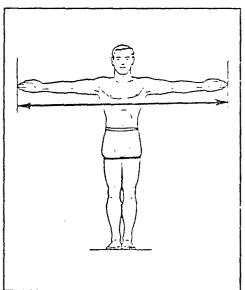
## FEMALES

THE SUMM				MARY STATI	
CENTIMETER	<b>S</b>	INCES	CENTIMETI	9KS	INCHES
5609	MEAN	22.08	60 14	MEAN	23 68
	SE (MEAN)		n 14	SE (MEAN)	0.05
7.94	ST DEV	0.76	2.99	ST DEV	1.18
0.07	SE(SD)	0.03	0.10	SE(SD)	0.04
0.07	DD (DD)	0.03	0.10	0s(0D)	0.04
51.50 1	MUMILICIA		53.00	MUMINIM	
64.10 l	MUMIXAN	25.24	68.40	MUMIXAM	26.93
COEFF. OF V	MOTIFETSE	3.5%	COFFF OF	VARIATION	5.02
SYMMETRY				VETA I	
KURIOSIS		3.81		VETA II	2.73
1.014.0010	4mm	3.01	TWICEGIE	ATTL II	2.75
NUMBER OF SU	UBJECTS	334	NUMBER OF	SUBJECTS	487
Dien	RCENTILES		•	PERCENTILES	•
CENTIMETERS		INCHES	CENTIMENT		
CLATTIMATERA	,	тисптэ	CENTIMET	200	INCHES
52.61	1ST	20.71	53.74	ıst	21.16
52.80	2ND	20.79	54.27		
52.97	3RD	20.85	54.66		
53.25	5TH	20.96	55.24	5TH	
53.76	10TH	21.16	56.22		
54.14	15TH	21.31	56.92		22.41
54.46	20TH	21.44	57.50		
54.74	25TH	21.55	58.01	25TH	22.64 22.84
55.00		21.65	58.46		23.02
55.21	35TH	21.75	58.89		23.19
55.47	40TH		59.30		23.35
55.70	45TH	21.93	59.69		23.50
55.93		22.02	60.08		23.65
56.16		22.11	60.47		23.81
56.40	60TH	22.20	60.87	60TH	
56.65	65TH		61.27		24.12
56.92	70TH	22.41	61.70	70TH	24.29
57.22		22.53	62.17		24.48
57.57		22.67	62.69		24.48
58.00	85TH	22.83	63.29		24.00
58.58	90TH		64.06		25.22
59.56	95TH	23.45	65.21		
60.29	97TH				25.67 25.98
			65.98		
60.90	98TH	23.97	66.56		26.20
61.97	99TH	24.40	67.51	99TH	26.58

## (98) SPAN

The distance between the tips of the middle fingers of the horizontally outstretched arms is measured on a wall chart. The subject stands erect with his/her back against a wall-mounted scale and with the heels together. Both arms and hands are stretched horizontally against a back wall with the tip of the middle finger of one hand just touching a side wall. A block is placed at the tip of the middle finger of the other hand to establish the measurement on the scale. The measurement is taken at the maximum point or quiet respiration.





## VARIABLE NO. 98-SPAN

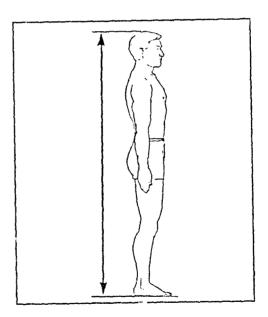
## FEMALES

	MARY STATI		THE SUMMARY STATISTICS CENTIMETERS INCHES
CENTIMETE	LCS .	INCHES	CENTIFIETERS INCRES
	MEAN	67.23	182.79 MEAN 71.96
	•		0.35 SE(MEAN) 0.14
4.83	ST DEV	1.90	7.74 ST DEV 3.05
0.19	SE(SD)	0.07	0.25 SE(SD) 0.10
164.00	MUMINIM	64.57	159.60 MINIMUM 62.83
193.30	MAXIMUM	76.10	205.60 MAXIMUM 80.94
	VARIATION	2.3%	COEFF. OF VARIATION 4.2%
SYMMETRY-	VETA I	0.95	SYMMETRYVETA I 0.06
KURTOSIS-	VETA II	4.06	KURTOSISVETA II 2.67
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS 487
	PERCENTILES		PERCENTILES
CENTIMETE	eks	INCHES	CENTIMETERS INCHES
163.91	1ST		166.32 1ST 65.48
164.07		64.59	167.74 2ND 66.04
164.23	3RD	64.66	168.74 3RD 66.43
164.55	5TH	64.78	170.21 5TH 67.01
165.15	10TH	65.02	172.69 10TH 67.99
165.69	15TH	65.23	174.49 15TH 68.70
166.39	20TH		175.97 20TH 69.28
167.04	25TH	65.76	177.28 25TH 69.79
167.62	30TH	65.99	178.47 30TH 70.26
168.11	35TH	66.18	179.58 35TH 70.70
168.57	4CTH	66.37	180.65 40TH 71.12
169.15	45TH	66.59	181.68 45TH 71.53
169.80	50TH	66.85	182.71 50TH 71.93
170.68	55TH	67.20	183.74 55TH 72.34
171.39	601H	67.48	184.78 60TH 72.75
172.04	65TH	67.73	185.85 65TH 73.17
172.64	70TH	67.97	186.98 70TH 73.61
173.46	75TH	68.29	188.19 75TH 74.09
174.50	HIO8	68.70	189.53 80IH 74.62
175.74	85TH	69.19	191.06 85TH 75.22
178.20	90TH	70.16	192.94 90TH 75.96
180.08	95TH	70.90	195.61 95TH 77.01
180.75	97TH	71.16	197.25 97TH 77.66
182.19	98TH	71.73	198.41 98TH 78.11
183.58	99TH	72.28	200.13 99TH 78.79

## (99) STATURE

The vertical distance from a standing surface to the top of the head is measured with an anthropometer. The subject stands erect with the head in the Frankfort plane. The heels are together with the weight distributed equally on both feet. The shoulders and upper extremities are relaxed. The measurement is taken at the maximum point of quiet respiration.





## VARIABLE NO. 99—STATURE

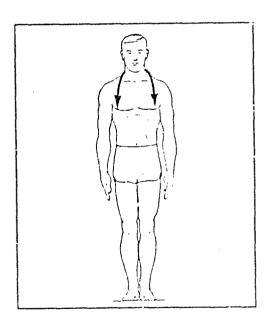
## FEMALES

### CT D	napu emm	· come co	ment can	MADIE OFFICE	· OTTT CO
•	Mary Stati			Mary Stati	
CENTIMETE	ers:	INCHES	CENTIMETE	iks	INCHES
168.02	MEAN	66.15	177.10	MEAN	69.73
0.25	SE (MEAN)	0.10	0.29		0.12
4.52	ST DEV	1.78	6.47	ST DEV	2.55
	SE(SD)	0.07	0.21		0.08
	` ,				
	MUNIMUM			MUNIMUM	
187.00	MAXIMUM	73.62	194.10	MUMIXAM	76.42
OFFF OF	VARIATION	2 72	COEFF. OF	IA)TIPATGAT	3.7%
SYMMETRY-			SYMMETRY—		
KURIOSIS-		3.62	KURTOSIS-		2.82
TONICOID	VEIN II	3.02	NOV. COTT.3	VIIIA II	2.02
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	₋ 87
	PERCENTILES	•	T	ERCENTILES	
CENTIMETE		INCHES	CENTIMETE		INCHES
CH (111 DIL	10	mann	CAVAILE		mans
157.29	1ST	61.92	161.85	1ST	63.72
159.07	2ND	62.63	163.66	2ND	64.43
160.03	3RD	63.00	164.80	3RD	64.88
161.17	5TH	63.45	166.33	5TH	
162.68	10TH	64.05	168.69	10TH	66.41
163.60	15TH	64.41	170.29	15TH 20TH	67.04
164.32	20TH	64.69	171.55		
164.94	25TH	64.94	172.65	25TH	67.97
165.51	30TH	65.16	173.64	30TH	68.36
166.04	35TH	65.37	174.56	35TH	68.72
166.57	401H	65.58	175.43	40TH	
167.10	45TH	65.79	176.27	45TH	69.40
167.64	50TH	66.00	177.11	50TH	69.73
168.20	55TH	66.22	<b>177.</b> 95	55TH	70.06
168.78	60TH	66.45	178.80	69TH	70.39
169.41	65TH	66.70	179.67	65TH	70.74
170.09	70TH	66.96	180.60	70TH	71.10
170.85	75TH	67.26	181.59	75TH	71.49
171.72	80TH	67.61	182.69	80TH	71.93
172.75	85TH	68.01	183.96	85TH	72.42
174.06	90TH	68.53	185.52	901H	73.04
175.95	95TH	69.27	187.75	95TH	73.92
177.08	97TH	69.72	189.11	97TH	74.45
177.83	98TH	70.01	190.06	98TH	
178.80	99TH	70.39	191.44	99TH	

#### (100) STRAP LEXCIH

The surface distance from the right bustpoint landmark on women or the right nipple (thelion) on men across the back of the neck to the left bustpoint or nipple is measured with a tape passing over the left and right lateral neck landmarks. The subject stands erect with the head in the Frankfort plane. The shoulders and upper extremities are relaxed. The measurement is made at the maximum point of quiet respiration.





## VARIABLE NO. 100—STRAP LENGTH

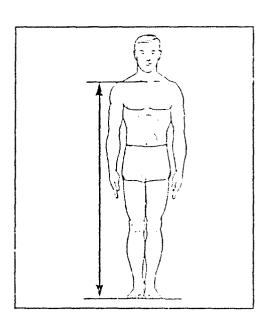
## FEMALES

	Mary Stati			MARY STATISTICS
CENTIMETE	RS	INCHES	CENTIMETE	ers inches
69.29	MEAN	27 28	71 03	MEAN 28 32
09.20	MEAN SE (MEAN)	0 10	0.16	MEAN 28.32 SE(MEAN) 0.06
	ST DEV			ST DEV 1.41
0.18	SE(SD)		0.11	
0.18	3E(3D)	0.07	0.11	35(30) 0.03
57.70	MUMIMIM	22.72	61.90	MINIMUM 24.37 MAXIMUM 32.56
86.70	MUMIXAM	34.13	82.70	MAXIMUM 32.56
COEFF. OF	מחדיייגדקגע	6.72	ACEER OF	VARIATION 5.0%
SYMMETRY				
KURIOSIS-				VETA II 2.85
NONTOSIS	VEIA II	3.30	WKI WIS-	VEIA II 2.05
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS 487
<del></del>				
I	PERCENTILES	5	. 1	PERCENTILES
CENTIMETE	RS	INCHES	CENTIMETI	ERS INCHES
58.82	1ST	23.16	63.99	1ST 25.19
60.18	2ND		64.98	
61.00	3RD		65.57	3RD 25.81
62.04	5TH		66.33	
63.58			67.47	10TH 26.56
64.59		25.43	68.24	
65.39			68.85	20TH 27.11
66.03	2574	25.74 26.02	69.39	201H 27.11 25TH 27.32
66.71	30TH		69.89	
67.30			70.36	
67.86	40TH		70.81	
68.42	45TH	26.94	71.26	
65.98	50TH	27.16	71.71	
69.55	55TH		72.18	
70.14	60TH		72.65	
70.76	65TH	27.86	73.16	65TH 28.80
71.43	70TH	28.12	73.70	70TH 29.01
72.17	75TH	28.41	74.29	75'TH 29.25
73.02			74.96	
74.04	BOTH E5TH	29.15	75.75	85TH 29.82
75.36	90TH		76.74	
77.38	95TH		78.18	
78.73	97TH		79.07	07TU 21 13
			79.07	3/1U 3T-13
79.73	98TH		79.69	98TH 31.37
81.31	99TH	32.01	80.57	99TH 31.72

#### (101) SUPRASTERNALE HEIGHT

The vertical distance between a standing surface and the suprasternale landmark on the notch at the top of the breastbone is measured with an anthropometer. The subject stands erect looking straight ahead. The heels are together with the weight distributed equally on both feet. The shoulders and upper extremities are relaxed. The measurement is made at the maximum point of quiet respiration.





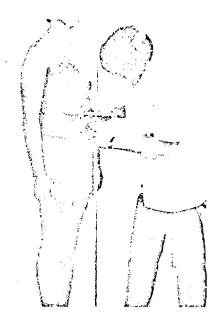
## VARIABLE NO. 101—SUPPASTERNALE HEIGHT

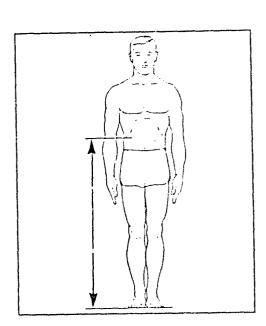
## FEMALES

THE SUMMARY STATISTICS		CHICC	THE SUMMARY STA	መናጥ ነው
				INCHES
CENTIMETE	TC)	INCHES	CENTIMETERS	TIACUES
137.03	MEAN	53.95	144.88 MEAN	57.04
0.22	SE (MEAN)	0.08	0.25 SE(MEAN	0.10
3.93	ST DEV	1.55	5.62 ST DEV	2.21
0.15		0.06	0.18 SE(SD)	
0.15	DE (DD)	0.00	0.10 65(65)	0.07
126 40	MINIMUM	49.76	126.30 MINIMUM	49.72
			160.20 MAXIMUM	
153.80	MAXIMUM	60.55	100.20 PAATPION	. 63.07
OPPE OF	VARIATION	2.9%	COEFF. OF VARIATIO	N 3.9%
		0.43		I -0.06
			KURIOSISVETA I	
KUKIUSIS	VETA II	3.64	KURICOIS——VEIA I	1, 2.79
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS	487
I	PERCENTILES	;	PERCENITI	ES
CENTIMET	ERS	INCHES	CENTIMETERS	INCHES
128.41	1ST	50.56	131.71 1ST	51.86
129.54	2ND		133.35 2ND	
130.20	3RD	51.26	134.35 3RD	
			<del>-</del>	
131.05	5TH		135.66 5TH	
132.30	10TH	52.09	137.65 10TH	
133.12	15TH	52.41	138.99 15TH	
133.78	201H	52.67	140.05 20TH	
134.35	257H	52.89	140.98 25TH	55.50
134,87	3077H		141.82 3009	55,84
135.37	351H	53.29	142.61 35TH	56.15
135.84			143.36 4011	56.44
136.31	45TH	53.67	144.10 45TH	
136.75	50TH	53.85	144.84 50TH	57.02
137.28	55TH	54.05	145.58 55TH	
137.78	60TH	54.24	146.33 60TH	57.61
138.31	65TH		147.11 65TF	57.92
138.88	70TH	54.68	147.93 70TH	I 58.24
			· · · · · · · · · · · · · · · · · ·	
139.52	75TH	54.93		•
140.24	HT08	55.21	149.81 80II	
141.09	85TH	55.55	150.93 85TH	59.42
142.19	90TH	55.98	152.31 90TH	I 59.96
143.81	95TH	56.62	154.19 95TH	60.71
144.85		57.03	155.27 97TF	
			155.27 9711 155.97 98Th	
145.59				
146.70	99TH	57.76	156.87 99Tr	f 61.76

## (102) TENIH RIB HEIGHT

The vertical distance between a standing surface and the tenth rib landmark at the bottom of the right side of the rib cage is measured with an anthropometer. The subject stands erect looking straight ahead. The heels are together with the weight distributed equally on both feet. The shoulders and upper extremities are relaxed. The measurement is made at the maximum point of quiet respiration.





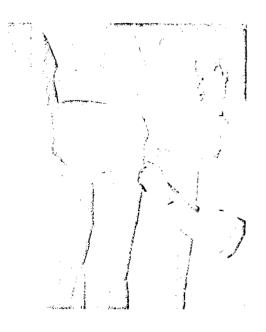
## VARIABLE NO. 102—TENIH RIB HEIGHT

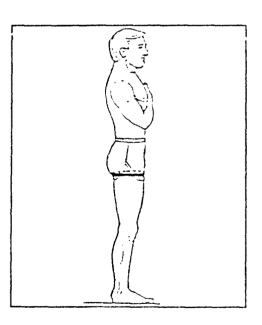
## FEMALES

			_				
THE SUMMARY STATISTICS			THE SUMMARY S	TATISTICS			
CENTIMETER	RS	INCHES	CENTIMETERS	INCHES			
107.31	MEAN	42,25	112.13 MEA	N 44.14			
0.19		0.07	0.21 SE(ME				
3.45	ST DEV	1.36	4.74 ST D				
0.13	SE (SD)	0.05					
0.13	ວະ (ວບ)	0.05	0.15 SE(S	D) 0.06			
98.30	MUNIMUM	38.70	99.20 MINIM	UM 39.06			
119.70	MAXIMUM	47.13	124.90 MAXIM	UM 49.17			
COEFF. OF V	/ARTATTON	3.2%	COEFF. OF VARIAT	ION 4.2%			
SYMMETRY-		0.40	SYMMETRY——VETA				
KURTOSIS-		3,32	KUPTOSISVETA				
MICHOLD	ATITY TI	3,32	Wi 10313VEIA	11 2.03			
NUMBER OF S	SUBJECTS	334	NUMBER OF SUBJECT	TS 487			
re		•	TOTAL VIEW VIEW VIEW VIEW VIEW VIEW VIEW VIEW				
	ERCENTILES		PERCENT				
CENTIMETE	<b>5</b>	INCHES	CENTIMETERS	INCHES			
100.00	1ST	39.37	100.97	ST 39.75			
100.97	2ND	39.75	102.36 21	ND 40.30			
101.53	3RD	39.97	103.22 31	RD 40.64			
102.22	5TH	40.25		TH 41.08			
103.23	10TH	40.64		TH 41.75			
103.89	15TH	40.90					
104.42	20TH	41.11	108.08 20	TH 42.20 TH 42.55			
104.90	25TH	41.30		TH 42.86			
105.34	30TH	41.47					
105.76	35TH						
105.76	40TH	41.80		TH 43.39			
			110.83 40	TH 43.63			
106.59				TH 43.87			
107.01	50TH	42.13		TH 44.11			
107.45	55TH	42.30		TH 44.35			
107.90	60TH	42.48		TH 44.59			
108.39	65TH	42.67		TH 44.84			
108.92	70TH	42.88		TH 45.11			
109.50	75TH	43.11		TH 45.40			
110.18	HTOH	43.38	116.16 80	TH 45.73			
110.97	35TH	43.69	117.12 85	TH 46.11			
112.00	90TH	44.09	118.34 90	TH 46.59			
113.50	95TH	44.68	120.12 95	TH 47.29			
114.43	97TH	45.05		TH 47.73			
115.08	98TH	45.31		TH 48.04			
116.00	99TH	45.67		TH 48.51			

#### (103) THIGH CIRCUMFERENCE

The circumference of the right thigh at its juncture with the buttock is measured with a tape. The measurement is made perpendicular to the long axis of the thigh. The subject stands erect with the weight distributed equally on both feet. The legs are spread apart just enough so that the thighs do not touch.





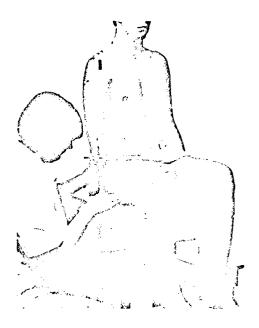
## VARIABLE NO. 103—THIGH CIRCUMFERENCE

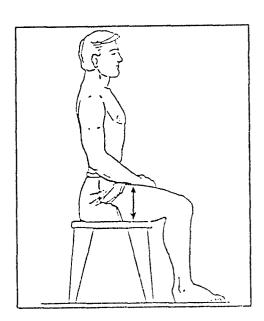
## FEMALES

THE SUMMARY STAT	ISTICS INCHES	THE SUMMARY STATISTICS CENTIMETERS INCHES
58.75 MEAN 0.25 SE(MEAN) 4.57 ST DEV 0.10 SE(SD)	0.10	59.44 MEAN 23.40 0.19 SE(MEAN) 0.08 4.30 ST DEV 1.69 0.14 SE(SD) 0.05
48.00 MINIMUM 72.60 MAXIMUM		46.60 MINIMUM 18.35 78.20 MAXIMUM 30.79
COEFF. OF VARIATION SYMMETRY——VETA I KURTOSIS——VETA II NUMBER OF SUBJECTS	0.32 3.16	COEFF. OF VARIATION 7.2% SYMMETRY—VETA I 0.16 KURIOSIS—VETA II 3.50  NUMBER OF SUBJECTS 487
PERCENTILES CENTIMETERS INCHES		PERCENTILES CENTIMETERS INCHES
48.24 1ST 49.68 2ND 50.52 3RD 51.59 5TH 53.13 10TH 54.12 15TH 54.91 20TH 55.59 25TH 56.20 30TH 56.78 35TH 57.34 40TH 57.89 45TH 57.89 45TH 58.44 50TH 59.01 55TH 59.60 60TH 60.23 65TH 60.91 70TH 61.66 75TH	18.99 19.56 19.89 20.31 20.92 21.31 21.62 21.88 22.13 22.35 22.57 22.79 23.01 23.23 23.47 23.71 23.98 24.28	CENTIMETERS         INCHES           49.77         1ST         19.59           50.85         2ND         20.02           51.54         3RD         20.29           52.50         5TH         20.67           53.98         10TH         21.25           55.00         15TH         21.65           55.81         20TH         21.97           56.52         25TH         22.25           57.15         30TH         22.50           57.74         35TH         22.73           58.30         40TH         22.95           58.84         45TH         23.17           59.38         50TH         23.38           59.92         55TH         23.59           60.47         60TH         23.81           61.03         65TH         24.03           61.63         70TH         24.26           62.28         75TH         24.52
62.53 80TH 63.56 85TH		63.01 80TH 24.81 63.84 85TH 25.13 64.90 90TH 25.55 66.45 95TH 26.16 67.44 97TH 26.55 68.17 98TF 26.84 69.29 99TH 27.28

## (104) THIGH CLEARANCE

The vertical distance between a sitting surface and the highest point on the top of the right thigh is measured with an anthropometer. The subject sits with the thighs parallel, knees flexed 90 degrees, and the feet in line with the thighs.





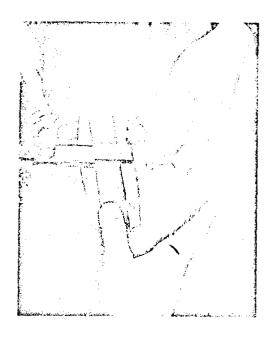
## VARIABLE NO. 104—THIGH CLEARANCE

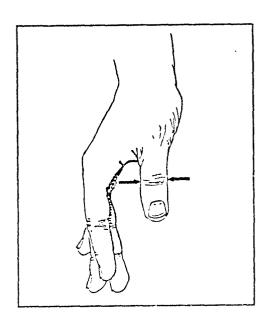
## FEMALES

			——————————————————————————————————————	
THE SUM	Mary Stati Rs	STICS INCHES	THE SUMMARY STAT	ISTICS INCHES
15.95	MEAN	6.28	16.79 MEAN	6.61
0.07	SE (MEAN)	0.03	0.05 SE(MEAN)	0.02
1.26	ST DEV	0.50	1.10 ST DEV	
0.05	SE(SD)	0.02	0.04 SE(SD)	0.01
			0.01 02(00)	0.01
12.90	MINIMUM	5.08	13.60 MINIMUM	5.35
20.60	MUMIXAM	8.11	20.90 MAXIMU4	8.23
COEFF. OF	VARIATION	7.9%	COEFF. OF VARIATION	6.5%
SYMMETRY-		0.50	SYMMETRY——VETA I	
KURTOSIS-		3.37		
101(10010	ALTEN TT	3.37	KURIOSISVETA II	3.11
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS	487
<b>.</b>				
	ERCENTILES		PERCENITLE	
CENTIMETE	<b>KS</b> .	INCHES	CENTIMETERS	INCHES
13.47	1ST	5.30	14.31 1ST	5.63
13.68	2ND	5.39	14.57 2ND	5.74
13.83	3RD	5.45	14.75 3RD	5.81
14.05	5TH	5.53	14.99 5TH	5.90
14.41	10TH	5.67	15.37 10TH	
14.67	15TH	5.78	15.63 15TH	6.15
14.88	20TH	5.86	15.84 20TH	6.24
15.07	25TH	5.93	16.03 25TH	
15.24	30TH	6.00		6.31
15.40	35TH	6.06		6.38
15.55	40TH	6.12	16.35 35TH	6.44
15.70	45TH		16.49 40TH	6.49
15.86		6.18	16.64 45TH	6.55
	50TH	6.24	16.78 50TH	6.60
16.01	55TH	6.30	16.92 55TH	6.66
16.17	60TH	6.37	17.06 60TH	6.72
16.34	65TH	6.43	17.21 65TH	6.77
16.51	70IH	6.50	17.36 70IH	6.84
16.71	75TH	<b>6.</b> 58	17.53 75TH	6.90
16.94	80TH	6.67	17.72 80TH	6.97
17.22	85TH	6.78	17.93 85TH	7.06
17.58	90TH	6.92	18.20 90TH	7.17
18.16	95TH	7.15	18.61 95TH	7.32
18.57	97TH	7.31	18.86 97TH	7.43
18.90	98TH	7.44	19.05 98TH	7.50
19.45	99TH	7.66	19.35 99TH	7.62
			17.55 77111	1.02

## (105) THIMB EREADIH

The maximum breadth of the right thumb perpendicular to its long axis is measured with a Holtain caliper. The thumb is straight and held away from the hand at about a 45-degree angle.





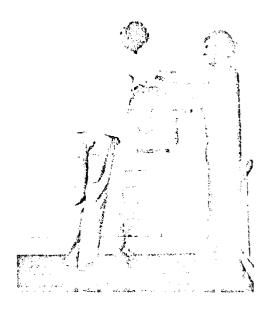
#### VARIABLE NO. 105-THIMB EREADIN

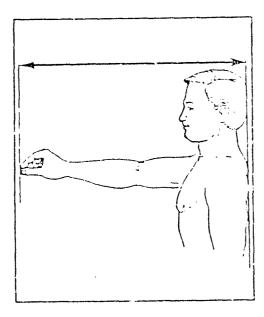
#### FEMALES

THE SUMMARY S CENTIMETERS	TATISTICS INCHES	THE SU CENTIMET	MMARY STATISTICS ERS INCHES
2.08 MEA	N 0.82	2.38	MEAN 0.94
0.01 SE(ME			SE(MEAN) 0.00
0.11 ST D	•		ST DEV 0.05
	SD) 0.00	0.00	
0.00 511(1	<i>ib)</i> 0.00	0.00	3E(3D) 0.00
1.80 MINIM	UM 0.71	2.00	
2.40 MAXIM	UM 0.94	2.80	MAXIMUM 1.10
COEFF. OF VARIAT	TON 5.4%	OFF. OF	VARIATION 5.3%
SYMMETRY——VETA		SYMMETRY-	
KURTOSISVETA			VETA II 2.88
TOTAL VIII.	2.00	icidesis	VIIII 2.00
NUMBER OF SUBJEC	TS 334	NUMBER OF	SUBJECTS 487
PERCENI	ידו דיכ		PERCENTILES
CENTIMETERS	INCHES		
CHAILINE	TIACUES	CENTIMET	ERS INCHES
1.85	ST 0.73	2.10	1ST 0.83
	ND 0.74	2.14	
1.88 3	RD 0.74	2.16	3RD 0.85
1.90 5	TH 0.75	2.18	
1.93 10	TH 0.76	2.23	10TH 0.88
1.96 15	TH 0.77	2.25	<b>15TH 0.89</b>
	7TH 0.78	2.28	
2.00 25	TH 0.79	2.29	OFFITT O OO
2.01 30	TH 0.79	2.31	
	TH 0.80	2.33	35TH 0.92
	7TH 0.81	2.35	
	TH 0.81	2.36	
	7TH 0.82	2.38	50TH 0.94
	TH 0.82	2.40	
	7TH 0.83	2.41	60TH 0.95
	TH 0.84	2.43	
	7TH 0.84	2.45	
	TH 0.85	2.43	
	7TH 0.85	2.47	
		2.50	
	7TH 0.88	2.56	
	TH 0.90	2.60	
	TH 0.91	2.63	
	TH 0.92	2.65	
2.35 99	TH 0.93	2.67	99TH 1.05

#### (106) THUMBTIP REACH

The horizontal distance from a back wall to the tip of the right thumb is measured on a wall scale. The subject stands erect in a corner looking straight ahead with the feet together and the heels 20 cm from the back wall. The buttocks and shoulders are against the wall. The right arm and hand, palm down, are stretched forward horizontally along a scale on the side wall. The thumb continues the horizontal line of the arm and the index finger curves around to touch the pad at the end of thumb. The subject's right shoulder is held against the rear wall.





## VARIABLE NO. 106—THEMBTIP REACH

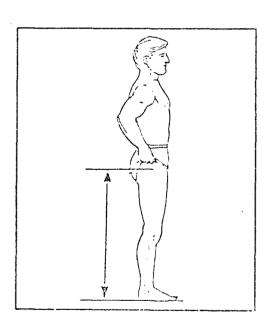
## FEMALES

	ary stati		-		Mary Stati	
CENTIMETER	S	INCHES		CENTIMETE	RS	INCHES
	MEAN SE (MEAN)			80.48	MEAN SE (MEAN)	31.68 0.07
	ST DEV	1.01		3.79	ST DEV	1 49
0.10	SE(SD)			0.12	SE(SD)	0.05
0.10	01 (00)	0.01		0.12	SB(CS)	0.05
	MINIMUM			70.50		27.76
83.70	MUMIXAM	32.95		92.60	MAXIMUM	36.46
COEFF. OF V				COEFF. OF		
SYMMETRY		0.44		SYMMETRY		
KURIOSIS	-VETA II	3.13	_	KURTOSIS	VETA II	3.04
NUMBER OF S	UBJECIS	334		NUMBER OF	SUBJECTS	487
Control of the state of the sta			<del>-</del>			<del></del>
PE	RCENTILES	3		F	ERCENTILES	3
CENTIMETER	S	INCHES		CENTIMETE	RS	INCHES
70.36	1ST	27.70		72.78	1ST	28.65
70.56	2ND			73.06	2ND	
70.76	3RD	27.86		73.42	3RD	
71.10	5TH	27.99		74.09	5TH	
71.77	10TH			75.40	10TH	29.68
72.30	15TH			76.39	15TH	
72.74	20TH	28.64		77.20	20TH	30.39
73.15	25TH	28.80		77.91	25TH	
73.52	30TH			78.53	30TH	
73.87	35TH	29.08		79.09	35TH	31.14
74.20	40TH	29.21		79.62	40TH	
74.53	45TH	29.34		80.12	45TH	31.54
74.86	50TH	29.47		80.59	50TH	
75.19	55TH	29.60		81.06	55TH	31.91
75.53	60TH	29.74		81.51	60TH	32.09
75.88	65TH	29.88		81.97	65TH	32.27
76.26	70TH	30.02		82.44	70TH	32.46
76.66	75TH	30.18		82.95	75TH	
77.12	80TH	30.36		83.51	HTOS	32.88
77.65	85TH	30.57		84.16	85TH	
78.34	90TH	30.84		85.03	90TH	33.47
79.40	95TH	31.26		86.49	95TH	
80.13	97TH			87,63	97TH	34.50
80.68	98TH	31.77		88.62	98TH	34.89
81.61	99TH	32.13		90.47	99TH	

## (107) TEOCHANIERICH HEIGHT

The vertical distance between a standing surface and the trochanterion landmark on the upper side of the right thigh is measured with an anthropometer. The subject stands erect looking straight ahead. The heels are together with the weight distributed equally on both feet.





^{*} Same as Trochanteric Height in previous reports.

# VARIABLE NO. 107-TRACEPATERICA HENGET

FEMALES

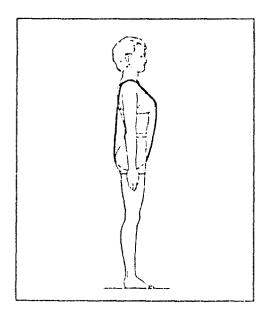
THE SUMMAI CENTIMETERS		STICS INCHES	THE SUN CENTIMETE	mary stati Rs	STICS INCHES
88.24 0.15 SE 2.82 S 0.11 S	E (MEAN) ST DEV	0.06 1.11	92.17 0.20 4.35 0.14	SE (MEAN) ST DEV	0.08 1.71
81.70 M 101.00 M			82.20 103.80	MINIMIM MUMIXAM	
COEFF. OF VAI SYMMETRY——\ KURIOSIS——\ NUMBER OF SUE	ETA II	0.65 4.23	SYMMETRY— Kurtosis—	VARIATION —VETA I —VETA II SUBJECTS	0.26 2.73
PER CENTIMETERS	ENTILES	INCHES	CENTIMETE	PERCENTILES ISS	INCHES
82.69 83.22 83.57 84.06 84.85 85.41 85.86 86.27 86.64 86.99 87.33 87.67 88.01 83.35 88.71 89.09 89.49 89.94	1ST 2ND 3RD 5TH 1OTH 15TH 2OTH 25TH	32.56 32.77 32.90 33.10 33.41 33.63 33.81 33.96 34.11 34.25 34.38 34.52 34.65 34.79 34.93 35.07 35.23 35.41	82.89	1ST 2ND 3RD 5TH 10TH 15TH 20TH 25TH 30TH 40TH 45TH 50TH 50TH 60TH 65TH 70TH 75TH 80TH	32.64 33.06 33.32 33.65 34.16 34.51 34.80 35.05 35.29 35.51 35.73 35.95 36.17 36.39 36.63 36.87 37.14 37.43 37.76
91.88 93.12 93.97	90TH 95TH	36.17 36.66 37.00	98.14 99.93 101.03 101.78 102.84	901H 95TH 97TH	38.64 39.34

## (108) VERTICAL TRUNK CIPCUMFERENCE (ASCC)*

The vertical circumference of the torso is measured with a tape passing between the buttocks, to the right of the genitalia, over the right bustpoint landmark on women or the nipple (thelion) on men, and across the midshoulder landmark. The subject stands erect looking straight ahead with the right arm hanging relaxed at the side. The heels are together with the weight distributed equally on both feet. The measurement is taken at the midpoint of quiet respiration.

* Aircrew Standardization Coordinating Committee





# VARIABLE NO. 108—VERTICAL TRUNK CIRCLMFERENCE (ASCC)

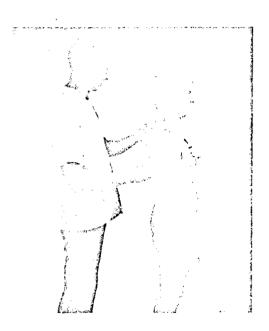
#### FEMALES

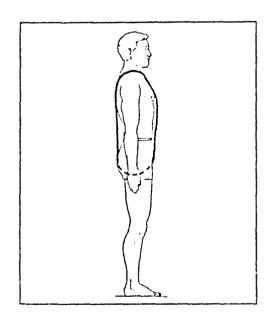
THE SIM	MARY STATI	STTCS	THE SIM	MARY STATI	STICS
CENTIMETE		INCHES	CENTIMETE		INCHES
153.47	MEAN	60.42	161.10	MEAN	63.42
	SE (MEAN)			SE (MEAN)	
	ST DEV	2.40	6.69	•	2.64
0.24	SE(SD)	0.09	0.21		0.08
137.50	MUNIMUM	54.13	135.00	MINIMUM	
174.00	MAXIMUM	68.50	180.30	MAXIMUM	70.98
COEFF. OF			COEFF. OF		
SYMMETRY			Symmetry—		
KURTOSIS-	—VETA II	3.32	KURTOSIS-	VETA II	3.14
					4
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
************	<del></del>				
P	ERCENTILES	;	Ŧ	ERCENTILES	3
CENTIMETE		INCHES	CENTIMETE		INCHES
			<del></del>		
140.94	1ST	55.49	145.97	1ST	57.47
142.10	2ND	55.95	147.70	2ND	58.15
142.91	3RD	56.26	148.81	3RD	58,59
144.07	5TH	56.72	150.32	5TH	59,18
145.97	10TH	57.47	152.66	10TH	
147.31	15TH	57.99	154.25	<b>1</b> 5TH	60.73
148.37	20TH	58.42	155.51	201H	
149.31	25TH	58.78	156.60	25TH	61.65
150.15	30TH	59.11	157.58	301H	62.04
150.93	35TH	59.42	158.48	35TH	
151.68	40TH	59.72	159.34	4CTH	62.73
152.40	45'IH	60.00	160.18	45TH	
153.13	50TH	60.29	161.00	50TH	
153.86	55TH	60.58	161.83	55TH	
154.61	60TH	60.87	162.67	601H	
155.39	65TH	61.18	163.54	65TH	
156.23	701H	61.51	164.46	701H	
157.17	75TH	61.88	165.46	75TH	
158.24	80TH	62.30	166.59	80IH	
159.53	85TH	62.81	167.90	851H	
161.27	90TH	63.49			
			169.57	90TH	
164.11	95TH	64.61	172.09	95TH	
166.18	97131	65.42	173.75	971H	
167.84	98TH		174.99		
170.72	99TH	67.21	176.98	99TH	<b>69.</b> 68

# (109) VERTICAL TAINK CIRCLIFFERENCE (USA)*

The vertical circumference of the torso is measured with a tape passing over the maximum protrusion of the right buttock, to the right of the genitalia, over the right bustpoint landmark on women or the nipple (thelion) on men, and across the midshoulder landmark. The subject stands erect looking straight ahead with the right arm hanging relaxed at the side. The heels are together with the weight distributed equally on both feet. The measurement is taken at the maximum point of quiet respiration.

* U.S. Army





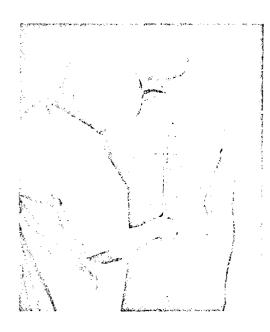
VARIABLE NO. 109-VERTICAL TRINK CIRCUMFERENCE (USA)

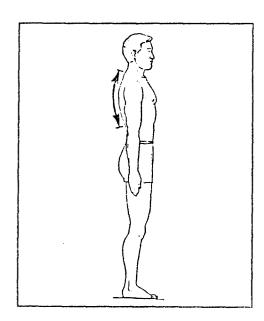
E-E-VAN	T T T
7, 7, 4	

THE SUMMARY STAT	ISTICS INCHES	THE SUMMARY STATUST: CENTIMETERS INC	ICS CHES
157.77 MEAN	62.11	165.60 MEAN 69	5.20
0.34 SE(MEAN)	0.13	0.31 SE(MEAN)	0.12
6.2" ST DEV			2.70
0.24 SE(SD)	0.10	0.22 SE(SD)	0.09
141.90 MINIMUM	55.87		4.25
177.30 MAXIMUM	69.80	184.80 MAXIMUM 73	2.76
COEFF. OF VARIATION	4.0%	COEFF. OF VARIATION	4.1%
SYMMETRY—VETA I			0.04
KURTOSISVETA II	3.20	KURTOSISVETA II	3.21
NUMBER OF SUBJECTS	334	NUMEER OF SUBJECTS	487
PERCENTILE	S	PERCENTILES	
CENTIMETERS	INCHES	<del></del>	CHES
144.15 1 <i>S</i> T	56.75	149.90 1ST 59	9.02
145.72 2ND	57.37	151.72 2ND 59	9.73
146.70 3RD	57.76	152.88 3RD 60	0.19
148.03 5TH	58.28	154.46 5TH 60	0.81
150.06 10TH	59.08	156.89 10TH 6	1.77
, 151.43 15TH	59.62	158.54 15TH 6	2.42
152.53 20TH	60.05		2.93
153.48 25TH	60.42	<b>160.98 25TH</b> 63	3.38
154.34 30TH	60.76	161.99 30TH 63	3.78
155.14 35TH	61.08	162.94 35TH 64	4.15
155.91 40TH	61.38	163.83 40TH 64	4.50
156.66 45TH	61.68	164.70 45TH 64	4.84
157.41 50TH	61.97	165.56 50TH 69	5.18
158.18 55TH	62.27	166.42 55TH 69	5.52
158.96 60TH	62.58	167.30 60TH 69	5.86
159.79 65TH	62.91	168.20 65TH 66	6.22
160.68 70TH	63.26	169.16 70TH 66	6.60
161.66 75TH	63.65	170.19 75TH 6	7.01
162.79 80TH	64.09		7.46
164.13 85TH	64.62		7.99
165.91 90TH	65.32		8.66
168.69 95TH	66.41		9.65
170.61 97TH	67.17	178.53 97TH 7	0.29
172.08 98TH	67.75		0.76
174.51 99TH	68.71		1.49

#### (110) WAIST BACK LENGTH (NATURAL INCENTATION)

The surface distance between the cervicale landmark on the back of the neck and the posterior-waist (natural indentation) landmark is measured with a tape. The subject stands erect with the head in the Frankfort plane. The shoulders and upper extremities are relaxed. The measurement is taken at the maximum point of quiet respiration.





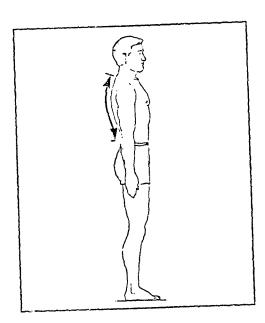
VARIABLE NO. 110—WAIST BACK LENGTH (NATURAL INDENTATION)
FEMALES MALES

mm cini	MATIN CONSTITUTION	CTITOC	mm on	ADDY COMMICONOC
CENTIMETE	Mary Stati	INCHES	CENTIMET	MARY STATISTICS
CEMITMETE	rco.	тистер	CENTIFICIT	NO THOUS
38.21	MEAN	15.04	42.16	MEAN 16.60
0.13	SE (MEAN)	0.05	0.10	MEAN 16.60 SE(MEAN) 0.04
	ST DEV		2.12	ST DEV 0.83
0.09	SE(SD)	0.03	0.07	
				(/
	MUNIMUM		36.30	MINIMUM 14.29
47.70	MAXIMUM	18.78	49.30	MAXIMUM 19.41
COEFF. OF	VARTATTON	6.0%	COEFF. OF	VARIATION 5.0%
SYMMETRY-				VETA I 0.02
KURTOSIS-		3.63		VETA II 3.03
	1222	0.00	TOTAGO	1211 11 21
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS 487
			<u> </u>	
P	ERCENTILES	5	I	PERCENTILES
CENTIMETE	RS	INCHES	CENTIMET	ERS INCHES
22 01	1.00	10.00	25.22	10m 14 m
32.81	1ST		36.90	
33.61	2ND		37.64	2ND 14.82
34.06	3RD	13.41	38.08	
34.64	5TH 10TH	13.64	38.65	
35.44			39.46	
35.96	15TH		39.98	
36.35	20TH	14.31	40.39	
36.69	25TH		40.74	
37.00	30TH	14.57	41.05	
37.28	35TH	14.68	41.33	35TH 16.27
37.56	401H	14.79	41.61	
37.82	45TH	14.89	41.87	
38.10	50TH	15.00	42.14	
38.37	55TH	15.11	42.40	
38.66	60TH	15.22	42.67	
38.96	65TH	15.34	42.95	65TH 16.91
39.28	70TH	15.46	43.25	
39.64	75TH		43.57	
40.05	BOTH	15.77	43.94	
40.54	85TH		44.36	85TH 17.46
41.18	90TH	16.21	44.90	90TH 17.68
42.15	95TH	16.60	45.68	
42.79	97TH	16.85	46.17	
43.26	98TH	17.03	46.51	
43.98	99TH	17.31	47.03	99TH 18.52

# (111) WAIST BACK LENGTH (CMPHALICN)

The surface distance between the cervicale landwark at the back of the neck and the posterior-waist (omphalion) landwark at the level of the navel is measured with a tape. The subject stands erect with the head in the Frankfort plane. The shoulders and upper extremities are relaxed. The measurement is taken at the maximum point of quiet respiration.





# VARIABLE NO. 111-WALST PACK LEAGTH (COMPALICN)

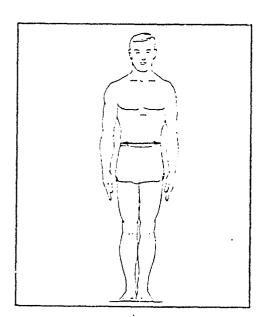
# FEMALES MALES

			-			
THE SUN	MARY STATT	STICS INCHES		THE SUN	MARY STATI	
CUALTIMETE	3.C	LIVCHES		CENTIFIETE	TC	INCHES
45.71	MEAN	18.00		48.75	MEAN	19.19
0.12		0.05			SE (MEAN)	0.04
2.22	ST LEV	0.87		2.41		0.95
0.09	SE(SD)	0.03		0.08	SE(E7)	0.03
41.00	MINIMUM	16.14		41.30		
55.50	MAXIMUM	21.85		55.40	MAXIM M	21.81
	VARIATION				VARIATION	
SYMMETRY-		0.48			VETA I	
KURTOSIS-	VETA II	3.50		KURIOSIS-	VEIA II	3.01
NUMBER OF	SUBJECTS	334		NUMBER OF	SUBJECTS	487
<del></del>			<b></b>	***************************************	••••••••••••••••••••••••••••••••••••••	
	PERCENTILES			F	PERCENTILES	3
CENTIMETE	irs	INCHES		CENTIMETE	īrs	INCHES
41.52	1ST	16.35		43.18	1ST	
41.81	2ND	16.46		43.80	2ND	
42.03	3RD	16.55		44.20	3RD	17.40
42.36	STH	16.68		44.76	5TH	
42.96	10TH	16.91		45.65	10111	17.97
43.40	15TH	17.09		46.25	15TH	18.21
43.78	2011	17.23		46.73	2011	18.40
44.11	25TH	17.37		47.14	251H	18.30
44.42	30TH	17.49		47.51	30IH	
44.72	35TH	17.61		47.85	35TH	18.84
45.00	40IH	17.72		48.17	40IH	
45.28	45TH	17.83		48.47	45TH	19.08
45.57	50TH	17.94		48.78	50TH	19.20
45.85	55TH	18.05		49.08	55TH	19.32
46.15	60TH	18.17		49.38	60TH	19.44
46.45	65TH	18.29		49.70	65TH	
46.78	70TH	13.42		50.03	70TH	19.70
47.14	75TH	18.56		50.38	75TH	
47.54	80TH	18.72		50.78	HTOS	19.99
48.02	35TH	18.90		51.24	85TH	
48.63	90TH	19.14		51.82	90TH	20.40
49.54	95TH	19.50		52.71	95TH	20.75
50.14	97TH	19.74		53.30	97TH	
50.59	98TH	19.92		53.74	98TH	21.16
51.30	99TH	20.20		54.46	99TH	21.44

#### (112) WAIST ENEADIH

The horizontal breadth of the waist at the level of caphalion is measure level a beam caliper. The subject stands erect looking straight ahead. The heels are together with the weight distributed equally on both feet. The measurement is taken at the maximum point of quiet respiration





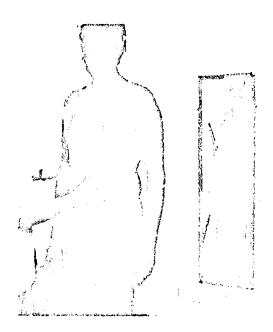
#### VARIABLE NO. 112-WAIST ENEADTH

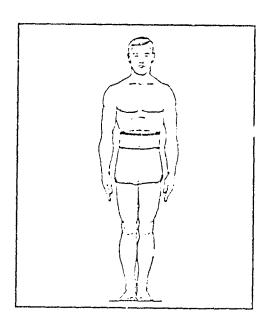
#### FEMALES

THE SUM	Mary Stati	STICS	THE SUMMARY STATIS	STICS
CENTIMETE	RS	INCHES	CENTIMETERS 1	INCHES
	MEAN		32.31 MEAN	
	SE (MEAN)	0.06	0.11 SE(MEAN)	
	ST DEV	1.16	2.51 ST DEV	
0.11	SE(SD)	0.05	0.08 SE(SD)	C.03
24.20	MINIMUM	9.53	25.80 MINIMUM	10.16
39.00	MAXIMUM	15.35	42.20 MAXIMUM	16.61
COEFF. OF	VARIATION	9.8%	COEFF. OF VARIATION	7.8%
SYMMETRY-		0.46	SYMETRY——VETA I	
KURIOSIS		2.75	KURTOSIS——VETA II	
10.40010	V.D.2.1. Z.2	2110	TURESCE VERT II	2.00
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS	487
<del></del>			We to the same of	*******
F	PERCENTILES	;	PERCENTILES	
CENTIMETE	TRS .	INCHES	CENTIMETERS	INCHES
24.47	1 000	9.63	27.26 1ST	10.73
25.08	2ND	9.87	27.20 151 27.65 2ND	10.73
25.44	3RD	10.01	27.03 2ND 27.93 3RD	11.00
25.91	51TH	10.20	28.36 5TH	11.16
26.64	10TH	10.49	29.09 10TH	11.45
27.16	15TH	10.49	29.62 15TH	11.45
27.60	20TH	10.86		11.84
	25TH	11.02		
28.00			30.48 25TH	12.00
28.38	30IH	11.17	30.85 30TH	12.15
28.75	35TH	11.32	31.20 35TH	12.28
29.12	4CIH	11.47	31.54 40TH	12.42
29.50	45TH	11.61	31.87 45TH	12.55
29.88	50TH	11.76	32.20 50TH	12.68
30.28	55TH	11.92	32.54 55TH	12.81
30.70	60TH	12.09	32.88 60TH	12.95
31.14	65TH	12.25	33.24 65TH	13.09
31.62	70TH	12.45	33.61 70TH	13.23
32.16	75TH	12.66	34.02 75TH	13.39
32.77	HT08	12.90	34.47 80IH	13.57
33.48	85TH	13.18	34.99 85TH	13.78
34.37	90TH	13.53	35.64 90TH	14.03
35.65	95TH	14.03	36.55 95TH	14.39
36.40	97TH	14.33	37.10 97TH	14.61
36.90	981H	14.53	37.10 37111 37.49 98TH	14.76
37.54	99TH	14.78	38.06 99TH	14.78
57.54	77111	14.70	30.00 991n	14.70

#### (113) WALSE CHECKEESENCE (HARSAL INTENTION)

The horizontal circumference of the waist at the level of its natural indentation is measured with a tape passing over right and left waist (natural indentation) landmarks. The subject stands erect looking straight ahead. The heels are together with the weight distributed equally on both feet. The measurement is made at the maximum point of quiet respiration.





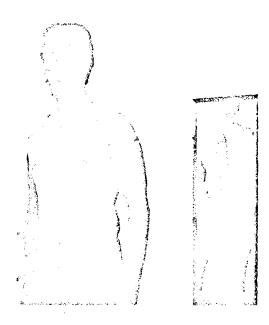
# VARIABLE NO. 113-AAIST CIRCLEFFERNCE (MATURAL INDEMINATION)

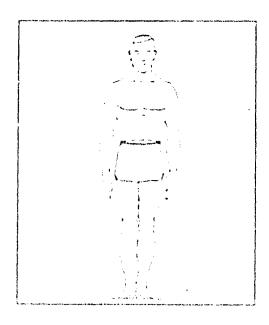
#### FEMALES

THE SUMMARY STATT CENTIMETERS	STICS INCHES	THE SUMMARY CONTINETERS	STATISTICS INCHES
74.15 MEAN 0.39 SE(MEAN) 7.11 ST DEV 0.28 SE(SD)	0.15 2.80	85.64 M 0.30 SE( 6.56 ST 0.21 SE	EAN 33.72 MEAN) 0.12 DEV 2.58 (SD) 0.08
57.30 MINIMUM 98.70 MAXIMUM	22.56 38.86	68.90 MIN 106.40 MAX	IMM 27.13 IMM 41.89
COEFF. OF VARIATION SYMMETRY——VETA I KURIOSIS——VETA II		COEFF, OF VARI SYMMETRY——VE KURTOX IS——VE	ATION 7.7% TA I 0.09 TA II 2.72
NUMBER OF SUBJECTS			
PERCENTILES CENTIMETERS		PERCE CENTIMETERS	NITLES INCHES
61.40 1ST 62.55 2ND	24.17 24.63	789 72.62	1ST 27.91 2ND 28.59
66.05 10TH	24.92 25.34 26.00	77.27	3RD 29.01 5TH 29.56 10TH 30.42
67.25 15TH 68.25 20TH 69.15 25TH 69.99 30TH	26.48 26.87 27.23	81.01	15TH 31.01 20TH 31.48 25TH 31.89
69.99 30TH 70.79 35TH 71.58 40TH 72.38 45TH	27.87	81.93 82.88	30TH 32.27 35TH 32.63
72.38 45TH 73.19 50TH 74.04 55TH		85.47	40IH 32.97 45IH 33.31 50IH 33.65 55IH 33.99
74.93 60TH	29.50 29.88	87.23	60TH 34.34 65TH 34.71 70TH 35.09
78.14 75TH 79.55 80TH 81.29 85TH	30.76 31.32	90.20 91.38	75TH 35.51 80TH 35.93 85TH 36.51
83.66 90TH 87.56 95TH	32.94 34.47	94.41 96.73	90TH 37.17 95TH 38.08
90.37 97TH 92.59 98TH 96.36 99TH	36.45 37.94		97IH 38.61 98IH 38.96 99IH 39.42

#### (114) WAIST CIECUMFERENCE (CMMPALICN)

The horizontal circumference of the waist at the level of the center of the navel (caphalian) is measured with a tape. The subject stands erect looking straight ahead. The heels are together with the weight distributed equally on both feet. The measurement is made at the maximum point of quiet respiration.





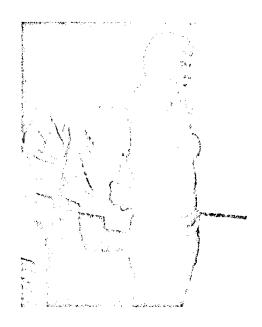
# VARIABLE NO. 114-WALST CIRCUMFERENCE (CNIHALICN)

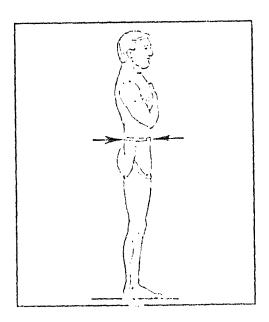
## FEMALES

THE SUM	Mary Stati	STICS	THE SUN	MARY STATI	ISTICS
CENTIMETE	RS	INCHES	CENTIMET	RS	INCHES
81.65	MEAN		88.84		
	SE (MEAN)			SE (MEAN)	
8.97	ST DEV	3.53	7.58	ST DEV	2.99
0.35	SE (SD)	0.14	0.24	SE(SD)	0.10
	MINIMIM		69.00		27.17
109.90	MAXIMUM	43.27	119.00	MAXIMIM	46.85
COEFF. OF	WADTATTON.	11.0%	OTTE OF	VARIATION	<b>G E</b> \$
SYMMETRY—		0.54		VETA I	
KURTOSIS		2.87		VETA II	
101(100)10	413131 77	2.07	WRIGHTS	ALIM II	2.04
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
				angun belle bilaker en eleganismelle elikakera en papa pellekerakera.	
p	TROUNTLIES	;	1	YERCENTII EX	3
CENTIMETE		DICHES	CENTIMETI		INCHES
65.94	ısr	25.96	73.29	lst	28.85
67.07	2ND	26.40	74.44	2ND	29.31
67.82	3RD	26.70	75.30		
68.92	5TH	27.13	76.62	5TH	30.16
70.84	10TH	27.89	78.93		
72.33	15TH	28.48	80.64	15'IH	31.75
73.63	20111	28.99	82.07	2011	32.31
74.85	257H	29.47	83.35	25TH	32.31 32.82
76.01	HTOE	29.92	84.53		33.28
77.14	35711	30.37	85.63	3571	
78.27	40TH	30.82	86.68		
79.41	45TH	31.26	87.71		
80.58	50TH	31.73	88.74		34.94
81.79	55TH	32.20	89.77		35.34
83.06	601H	32.70	90.81		35.75
84.41	65'IH	33.23	91.88	65TH	
85.87	70TH	33.81	93.01		36.62
87.48	751H	34.44			
			94.22	15.1.11	37.09
89.33	HTOS	35.17	95.55		37.62
91.43	85TH	36.02	97.06	85114	38.21
94.22	901H	37.10	98.91		
99.19	957H	38.66	101.49		<b>39.</b> 96
100.62	97TH		103.04	97JH	40.57
102.30	98TH	40.28	104.10	98711	40.99
104.67	99TH	41.21	105.65	99TH	41.59

## (115) WAIST DEPTH

The horizontal distance between the front and back of the waist at the level of the center of the navel (caphalion) is measured with a beam caliper. The subject stands erect looking straight ahead. The heels are together with the weight distributed equally on both feet. The measurement is taken at the maximum point of quiet respiration.





# VARIABLE NO. 115-WAIST DEPIH

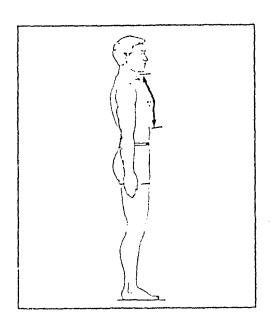
#### FEMALES

20.69 MEAN 8.14 23.19 MEAN 9 0.15 SE(MEAN) 0.06 0.11 SE(MEAN) 0 2.70 ST DEV 1.06 2.39 ST DEV 0 0.10 SE(SD) 0.04 0.08 SE(SD) 0 15.50 MINIMUM 6.10 17.50 MINIMUM 6 29.00 MAXIMUM 11.42 33.50 MAXIMUM 13  COEFF. OF VARIATION 13.1% COEFF. OF VARIATION 10 SYMMETRY—VETA I 0.61 SYMMETRY—VETA I 0	CCS HES 0.13 0.04 0.94 0.03 0.89 0.19
CENTIMETERS         INCHES         CENTIMETERS         INC           20.69         MEAN         8.14         23.19         MEAN         9           0.15         SE (MEAN)         0.06         0.11         SE (MEAN)         0           2.70         ST DEV         1.06         2.39         ST DEV         0           0.10         SE (SD)         0.04         0.08         SE (SD)         0           15.50         MINIMUM         6.10         17.50         MINIMUM         6           29.00         MAXIMUM         11.42         33.50         MAXIMUM         13           COEFF. OF VARIATION         13.1%         COEFF. OF VARIATION         10           SYMMETRY—VETA         I         0.61         SYMMETRY—VETA         I	HES 0.13 0.04 0.94 0.03
20.69 MEAN 8.14 23.19 MEAN 9 0.15 SE(MEAN) 0.06 0.11 SE(MEAN) 0 2.70 ST DEV 1.06 2.39 ST DEV 0 0.10 SE(SD) 0.04 0.08 SE(SD) 0 15.50 MINIMUM 6.10 17.50 MINIMUM 6 29.00 MAXIMUM 11.42 33.50 MAXIMUM 13  COEFF. OF VARIATION 13.1% COEFF. OF VARIATION 10 SYMMETRY—VETA I 0.61 SYMMETRY—VETA I 0	0.13 0.04 0.94 0.03
0.15 SE(MEAN) 0.06 0.11 SE(MEAN) 0 2.70 ST DEV 1.06 2.39 ST DEV 0 0.10 SE(SD) 0.04 0.08 SE(SD) 0 15.50 MINIMUM 6.10 17.50 MINIMUM 6 29.00 MAXIMUM 11.42 33.50 MAXIMUM 13  COEFF. OF VARIATION 13.1% COEFF. OF VARIATION 10 SYMMETRY—VETA I 0.61 SYMMETRY—VETA I 0	.04 .94 .03
0.15 SE(MEAN) 0.06 0.11 SE(MEAN) 0 2.70 ST DEV 1.06 2.39 ST DEV 0 0.10 SE(SD) 0.04 0.08 SE(SD) 0 15.50 MINIMUM 6.10 17.50 MINIMUM 6 29.00 MAXIMUM 11.42 33.50 MAXIMUM 13  COEFF. OF VARIATION 13.1% COEFF. OF VARIATION 10 SYMMETRY—VETA I 0.61 SYMMETRY—VETA I 0	.04 .94 .03
2.70 ST DEV 1.06 2.39 ST DEV 0 0.10 SE(SD) 0.04 0.08 SE(SD) 0  15.50 MINIMUM 6.10 17.50 MINIMUM 6 29.00 MAXIMUM 11.42 33.50 MAXIMUM 13  COEFF. OF VARIATION 13.1% COEFF. OF VARIATION 10 SYMMETRY—VETA I 0.61 SYMMETRY—VETA I 0	.94
0.10 SE(SD) 0.04 0.08 SE(SD) 0  15.50 MINIMUM 6.10 17.50 MINIMUM 6 29.00 MAXIMUM 11.42 33.50 MAXIMUM 13  COEFF. OF VARIATION 13.1% COEFF. OF VARIATION 10 SYMMETRY—VETA I 0.61 SYMMETRY—VETA I 0	.89
15.50 MINIMUM 6.10 17.50 MINIMUM 6 29.00 MAXIMUM 11.42 33.50 MAXIMUM 13 COEFF. OF VARIATION 13.1% COEFF. OF VARIATION 10 SYMMETRY—VETA I 0.61 SYMMETRY—VETA I 0	.89
29.00 MAXIMUM 11.42 33.50 MAXIMUM 13  COEFF. OF VARIATION 13.1% COEFF. OF VARIATION 10  SYMMETRY—VETA I 0.61 SYMMETRY—VETA I 0	
COEFF. OF VARIATION 13.1% COEFF. OF VARIATION 10 SYMMETRY—VETA I 0.61 SYMMETRY—VETA I 0	
SYMMETRY—VETA I 0.61 SYMMETRY—VETA I 0	
SYMMETRY—VETA I 0.61 SYMMETRY—VETA I 0	20
District villa 1 U	
KIDINGTO TO A OF THE PROPERTY	
I WIGOID VEIN II 3	.00
NUMBER OF SUBJECTS 334 NUMBER OF SUBJECTS	487
PERCENTILES DEPOCEMENT TO	
CENTUMETRO. THE THE	
CEMITMETERS INCHES CENTIMETERS INC	HES
16.09 1ST 6.33 18.28 1ST 7	.20
16.36 2ND 6.44 18.71 2ND 7	.37
	.48
16.90 500 6.00	. 65
17 46 1000 C 00	.92
377 04 4 5774	.13
	.29
10 66 2000	.44
19.01 2001 7.40	
10.24 25001 7.62	.58
10.67 40781	.71
20.20 time 8.	.84
20.24	.96
25.09 SUM 9.	.09
23.06 6000 0.00	.22
21 45 (57) 0 45	.35
21 00 70001 0 01	48
22 25 7011 9.	62
22.35 75TH 8.80 24.84 75TH 9.	78
70111 ).	10
22.90 80TH 9.01 25.28 80TH 9.	95
22.90 80TH 9.01 25.28 80TH 9. 23.55 85TH 9.27 25.79 85TH 10.	95
22.90     80TH     9.01     25.28     80TH     9.       23.55     85TH     9.27     25.79     85TH     10.       24.40     90TH     9.61     26.42     90TH     10.	95 15
22.90     80TH     9.01     25.28     80TH     9.       23.55     85TH     9.27     25.79     85TH     10.       24.40     90TH     9.61     26.42     90TH     10.       25.71     95TH     10.12     27.31     95TH     10.	95 15 40
22.90     80TH     9.01     25.28     80TH     9.       23.55     85TH     9.27     25.79     85TH     10.       24.40     90TH     9.61     26.42     90TH     10.       25.71     95TH     10.12     27.31     95TH     10.       26.59     97TH     10.47     27.85     97TH     10.	95 15 40 75
22.90     80TH     9.01     25.28     80TH     9.       23.55     85TH     9.27     25.79     85TH     10.       24.40     90TH     9.61     26.42     90TH     10.       25.71     95TH     10.12     27.31     95TH     10.	95 15 40 75 96

## (116) WAIST FRONT LENGTH (NATURAL INDENTATION)

The surface distance between the anterior-neck lardmark and the anterior-waist (natural indentation) landmark is measured with a tape. The subject stands erect with the head in the Frankfort plane. The measurement is made at the maximum point of quiet respiration.





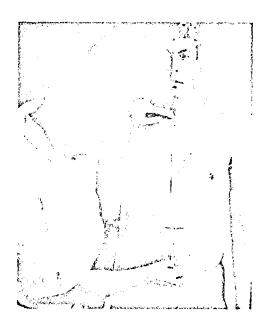
VARIABLE NO. 116—WAIST FRONT LENGTH (NATURAL INDENTATION)

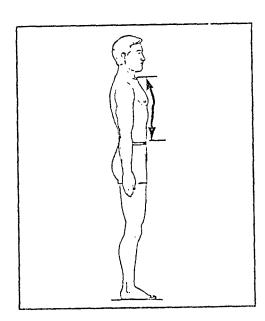
FEMALES

				)
THE SUM	Mary stati Rs	STICS INCHES	THE SUN CENTIMETE	MARY STATISTICS RS INCHES
32.40 0.12 2.22	MEAN SE (MEAN) ST DEV	0.87	35.23 0.09 1.92	SE(MEAN) 0.03 ST DEV 0.75
0.09	SE(SD)	0.03	0.06	SE(SD) 0.02
26.80 40.40	MINIMUM MAXIMUM	10.55 15.91	30.40 41.80	
COEFF. OF SYMMETRY— KURTOSIS—	VETA I	6.8% 0.58 3.76	COEFF. OF SYMMETRY— KURIOSIS—	
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS 487
F	PERCENTILES	3		PERCENTILES
CENTIMETE	RS	INCHES	CENTIMETY	ers inches
28.08 28.46	1ST 2ND	11.06 11.21	30.69 31.15	1ST 12.08 2ND 12.26
28.73	3RD	11.31	31.47	3RD 12.39
29.12	5'I'H	11.46	31.93	5TH 12.57
29.76	10TH	11.72	32.68	10TH 12.86
30.21	15TH	11.89	33.19	15TH 13.07
30.57	20TH	12.04	33.59	20TH 13.22
30.89	25TH	12.16	33.94	25TH 13.36
31.18	30TH	12.28	34.24	30TH 13.48
31.45	35TH	12.38	34.52	35TH 13.59
31.71	40TH	12.48	34.78	40TH 13.69
31.97	45TH	12.58	35.03	45TH 13.79
32.22	50TH	12.69	35.28	50TH 13.89
32.48	55TH	12.79	35.52	55TH 13.98
32.75	60TH	12.89	35.75	60TH 14.08
33.03	65TH	13.00	36.00	65TH 14.17
33.34	70TH	13.12	36.25	70TH 14.27
33.68	75TH	13.26	36.53	75TH 14.38
34.08	HT08	13.42	36.83	80TH 14.50
34.57	85TH	13.61	37.18	85TH 14.64
35.25	90TH	13.88	37.62	90TH 14.81
36.38	95TH	14.32	38.31	95TH 15.08
37.22	97TH	14.65	38.78	
37.90	98TH	14.92	39.15	98TH 15.41
39.11	99TH	15.40	39.78	99TH 15.66

#### (117) WAIST FACAT LEAGIH (CIFHALICH)

The surface distance between the anterior-neck landmark and the center of the navel (cmphalion) is measured with a tape. The subject stands erect with the head in the Frankfort plane. The measurement is made at the maximum point of quiet respiration





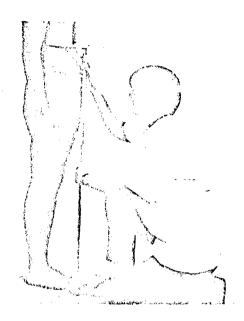
VARIABLE NO. 117-WAIST FRONT LENGTH (CMPHALION)

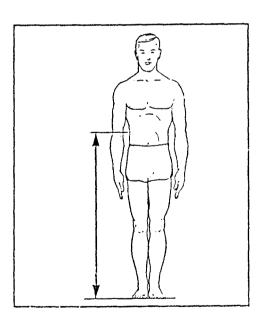
FRMA	7	ES

			<del>\</del>		
THE SUI	MARY STATT	STICS	THE SUM	MARY STATI	ISTICS
CENTIMET		INCHES	THE SUM CENTIMETE	RS	INCHES
40.28	MEAN	15.86	41.98	MEAN	16.53
0.12	MEAN SE (MEAN)	0.05		SE (MEAN)	0.04
2.24	ST DEV	0.88		ST DEV	
0.09		0.03	0.07		
				52(55)	••••
34.20	MINIMIM	13.46	34.10	MINIMUM	13.43
48.10	MILMIXAM	18.94		MAXIMIM	
	VARIATION		COEFF. OF		
	VETA I		SYMMETRY-		
KURIOSIS-	VETA II	3.27	KURTOSIS-	VETA II	3.20
	-				
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
				······································	
I	PERCENTILES	;	F	ERCENTILES	5
CENTIMET	ERS	INCHES	CENTIMETE		INCHES
35.86		14.12	37.41	1ST	14.73
36.26	2ND	14.27	37.85	2ND	
36.52	3RD	14.38	38.15	3RD	
36.90	5TH	14.53	38.58		
37.53	101H	14.78	39.28		
37.98	15TH	14.95	39.78		
38.36	20TH	15.10	40.18		15.82
38.69	25TH	15.23	40.53		15.96
39.00	30TH	15.35	40.85		
39.29		15.47	41.14		16.20
39.57		15.58	41.42		
39.84	45TH	15.69	41.69		16.41
40.12		15.80	41.95		
40.41	55TH	15.91	42.22	55TH	16.62
40.70		16.02	42.49		16.73
41.01	65TH	16.14	42.77	65TH	16.84
41.34	70TH	16.27	43.06	70TH	16.95
41.70	75TH	16.42	43.38	75TH	17.08
42.12	80TH	16.58	43.75	HT08	17.22
42.62	85TH		44.17		17.22
43.26	90TH	17.03	44.72	90TH	17.60
44.25	95TH		44.72 45.56		
44.93	97TH	17.69	46.13		17.94
45.43	97TH	17.89			18.16
46.26	99TH	18.21			18.34
40.20	JULIA	10.21	47.31	99TH	18.62

## (118) WAIST HEIGHT (NATURAL INTENTATION)

The vertical distance between a standing surface and the landmark at the natural indentation of the right waist is measured with an anthropometer. The subject stands erect looking straight ahead. The heels are together with the weight distributed equally on both feet. The shoulders and upper extremities are relaxed. The measurement is made at the maximum point of quiet respiration.





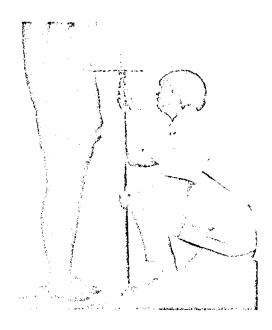
# VARIABLE NO. 118-WALST HEIGHT (NATURAL INDEMINATION)

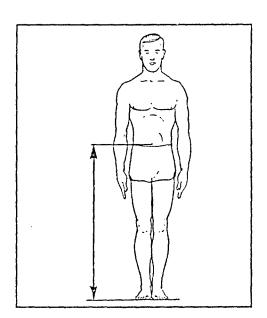
## FEMALES

THE SUMMARY	STATIST	rcs	THE CIM	MARY STATI	CUT CC
CENTIMETERS		CHES	CENTIMETE		INCHES
CENTIMETER	77.47	4100	CENTIMETE	10	шско
100 75 165	2237 4	2 02	212 14	MOM	44 54
		2.82	113.14		
0.21 SE(M		0.08		SE (MEAN)	
3.83 ST	DEV :	1.51	4.80	ST DEV	1.89
0.15 SE(	(SD) (	0.06	0.15	SE(SD)	0.06
·				, ,	
97.70 MINI	IMUM 38	3.46	99.30	MUNIMUM	39.09
122.20 MAXI	MUM 48	3.11	126.70	MAXIMUM	49.88
COEFF. OF VARIA	C MOLTA	3.5%	COEFF. OF	VARIATION	4.2%
SYMMETRYVET	A I	0.36	SYMMETRY-	VETA I	0.04
KURTOSISVET		3.28		VETA II	
141111111111111111111111111111111111111			1010010	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2000
NUMBER OF SUBJE	സ്ത	334	NUMBER OF	SUBJECTS	487
THE DOLLAR	2020	<b>33</b> 1	riormant or	002011010	10,
PERCEN	TILES		F	ERCENTILES	3
CENTIMETERS		CHES	CENTIMETE		INCHES
			<b>GLZ</b> (1212)		22.02.22
101.06	1ST 39	9.79	101.94	1ST	40.13
101.87		0.11	103.28	2ND	
			103.28		
102.38		0.31		3RD	
		0.57	105.23	5TH	
104.13 1	LOTH 4:	1.00	106.92	10TH	42.10
104.88	L5TH 4:	1.29	108.07	15TH	42.55
105.49 2	20TH 4:	1.53	108.98	20TH	42.91
106.04 2	25TH 4:	1.75	109.78	25TH	43.22
		1.95	110.50	30TH	
		2.14	111.17		
				35TH	
		2.32	111.81	40TH	
107.97	15TH 4:	2.51	112.43	45TH	44.26
108.44 5	50TH 4:	2.69	113.05	50TH	44.51
108.93 5	55TH 4:	2.88	113.67	55TH	44.75
109.43	50TH 4:	3.08	114.31		45.00
		3.29	114.97	65TH	
		3.52		70TH	
			115.67		45.54
		3.77	116.42	75TH	45.84
111.89	30TH 4	4.05	117.27	HT08	46.17
112.75	35TH 4	4.39	118.23	85TH	46.55
113.85	90TH 4-	4.82	119.44	901H	47.03
		5.47	121.17	95TH	47.71
		5.89	122.23	97TH	
		6.20	122.96	98TH	
118.51	99TH 4	6.66	124.03	99TH	48.83

## (119) WAIST HEIGHT (CMPHALICM)

The vertical distance between a standing surface and the center of the navel (comphalion) is measured with an anthropometer. The subject stands erect looking straight ahead. The heels are together with the weight distributed equally on both feet. The shoulders and upper extremities are relaxed. The measurement is made at the maximum point of quiet respiration.





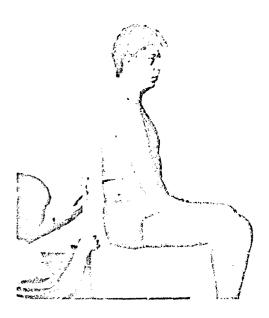
# VARIABLE NO. 119-WAIST HEIGHT (COTHINLICN)

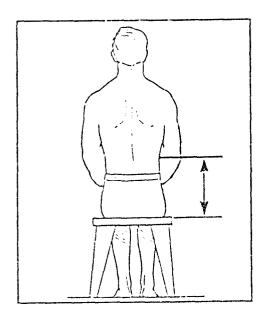
## FEMALES

			<del></del>		
(TV TT	19 FT TO 2	r			
	Mary Stat		THE SU	MARY STAT	ISTICS
CENTIMETE	rs	INCHES	CEVITMET	RS	INCHES
101.27	MEAN SE (MEAN)	39.87	106.50	MEAN	41.93
0.18	SE (MEAN)	0.07	0.22		
3.35	ST DEV	1.32		ST DEV	1.89
0.13	SE(SD)	0.05	0.15	SE(SD)	
	-				
	MUNIMUM		93.20	MUNIMUM	36.69
114.50	MAXIMUM	45.08	120.30	MUMIXAM	47.36
COEFF. OF	VARIATION	3.3%	COEFF. OF	VARIATION	4.5%
SYMMETRY-	VETA I	0.42	SYMMETRY-		
KURIOSIS-	VETA II	3.60	KURTOSIS-		2.77
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
	······································	<del></del>			
	ERCENTILES	3	I	ERCENTILES	3
CENTIMETE	RS	INCHES	CENTIMETE		INCHES
					21.4112
94.07		37.03	95.08	1ST	37.43
94.96	2ND	37.39	96.59	2ND	
95.50	3RD	37.60	97.49	3RD	38.38
96.21	5TH	37.88	98.65		38.84
97.26	1011	38.29	100.36		39.51
97.96	15TH	38.57	101.50	15TH	39.96
98.51	20TH	38.79	102.39	20TH	40.31
99.00	25TH	38.98	103.17		40.62
99.44	30.TH		103.88	30TH	40.90
99.86	35TH	39.31	104.54	35TH	41.16
100.26	40TH	39,47	105.17		
100.65	45TH	39.63	105.79		41.41
101.05		39.79	106.41	45TH	41.65
101.46		39.95			41.89
101.88		40.11	107.03		42.14
102.33	65TH		107.67		42.39
102.33		40.29	108.34		42.65
103.34		40.48	109.04	70TH	42.93
	75TH	40.69	109.81	75TH	43.23
103.96	HI08	40.93		e 80TH	
104.69	85TH	41.21	111.65	85TH	43.96
105.64	90TH	41.59	112.86	90TH	41.43
107.12	95TH	42.17	114.56	95TH	45.10
108.11	97TH	42.56	115.55	97TH	45.49
108.85	HT36	42.85	116.21	98TH	45.75
110.03	99TH	43.32	117.08	99TH	46.09

#### (120) WAIST HEIGHT, STITING (NATURAL EXPERIENTICA)

The vertical distance from a sitting surface to the landmark at the natural indentation of the right waist is measured with an anthropometer. The subject sits erect looking straight ahead. The knoes are flexed 90 degrees. The measurement is made at the maximum point of quiet respiration.





VARIABLE NO. 120-WAIST HEIGHT, SITTEMS (NATURAL INDENIATION)

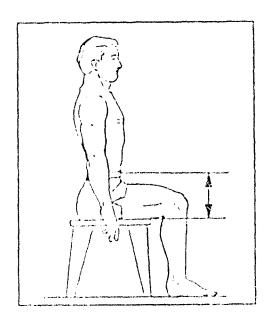
FFMA	TOC	
L L 347	125	

THE SUMM	ary <i>s</i> tati	STICS	THE SUMMARY	STATISTICS
CENTIMETER	ප	INCHES	CENTIMETERS	INCHES
28.97	MEAN	11.41	29.10 M	EAN 11.46
0.11	SE (MEAN)	0.04	0.07 SE(	MEAN) 0.03
2.07	ST DEV	0.82		DEV 0.61
0.08	SE(SD)	0.03		(SD) 0.02
23.00	MUNIMUM	9.06	23.10 MIN	IMUM 9.09
34.40	MUMIXAM	13.54	33.40 MAX	IMUM 13.15
∞EFF. OF V	VARIATION	7.2%	COEFF. OF VARI	ATTON 5.3%
SYMMETRY		-0.14	SYMMETRYVE	
KURTOSIS		2.76	KURIOSISVE	
NUMBER OF S	UBJECTS	334	NUMBER OF SUBJ	ECIS 487
PF	RCENTILES	3	DE DATE	MITTLES
CENTIMETER		INCHES	CENTIMETERS	INCHES
23.73	1.000	9.34	25.16	1ST 9.90
24.49		9.64	25.73	
24.45	3RD	9.82		
			26.08	3RD 10.27
25.49	5TH	10.04	26.52	5TH 10.44
26.30	1011	10.36	27.16	10TH 10.69
26.83	1577			15TH 10.85
27.23	20TH	10.72		20TH 10.98
27.58	25'IH		28.14	25TH 11.08
27.89	301H	10.98	28.37	30TH 11.17
28.18	35TH	11.10	28.53	35TH 11.25
28.46	40171	11.20		40TH 11.33
28.46 28.73			28.96	45TH 11.40
	401% 45TH 50/1H	11.20 11.31 11.41	28.96	45TH 11.40
28.73	401% 45TH 50/1H	11.20 11.31 11.41	28.96 29.14	45TH 11.40 50TH 11.47
28.73 28.9 <del>9</del> 29.26	401% 45% 50% 55% 55%	11.20 11.31 11.41 11.52	28.96 29.14 29.33	45TH 11.40 50TH 11.47 55TH 11.55
28.73 28.9 <del>9</del> 29.26 29.53	40131 457.H 50/1H 557.H 601H	11.20 11.31 11.41 11.52 11.63	28.96 29.14 29.33 29.51	45TH 11.40 50TH 11.47 55TH 11.55 60TH 11.62
28.73 28.9 <del>9</del> 29.26 29.53 29.81	40131 457H 507H 557H 607H 657H	11.20 11.31 11.41 11.52 11.63 11.74	28.96 29.14 29.33 29.51 29.70	45TH 11.40 50TH 11.47 55TH 11.55 60TH 11.62 65TH 11.69
28.73 28.99 29.26 29.53 29.81 30.11	401% 45%H 50/1H 55%H 60/1H 65%H 70/1H	11.20 11.31 11.41 11.52 11.63 11.74 11.85	28.96 29.14 29.33 29.51 29.70 29.91	45TH 11.40 50TH 11.47 55TH 11.55 60TH 11.62 65TH 11.69 70TH 11.77
28.73 28.99 29.26 29.53 29.81 30.11 30.43	401% 45%H 50/1H 55%H 60/1H 65/TH 70/TH	11.20 11.31 11.41 11.52 11.63 11.74 11.85 11.98	28.96 29.14 29.33 29.51 29.70 29.91 30.12	45TH 11.40 50TH 11.47 55TH 11.55 60TH 11.62 65TH 11.69 70TH 11.77 75TH 11.86
28.73 28.99 29.26 29.53 29.81 30.11 30.43 30.78	401% 45%H 50/1H 55%H 60/1H 65/TH 70/TH 75/TH 80/TH	11.20 11.31 11.41 11.52 11.63 11.74 11.85 11.98 12.12	28.96 29.14 29.33 29.51 29.70 29.91 30.12 30.37	45TH 11.40 50TH 11.47 55TH 11.55 60TH 11.62 65TH 11.69 70TH 11.77 75TH 11.86 80TH 11.96
28.73 28.99 29.26 29.53 29.81 30.11 30.43 30.78 31.18	401% 45%H 50/1H 55%H 60/1H 657H 70/1H 75/TH 80/1H 85/TH	11.20 11.31 11.41 11.52 11.63 11.74 11.85 11.98 12.12 12.28	28.96 29.14 29.33 29.51 29.70 29.91 30.12 30.37 30.66	45TH 11.40 50TH 11.47 55TH 11.55 60TH 11.62 65TH 11.69 70TH 11.77 75TH 11.86 80TH 11.96 85TH 12.07
28.73 28.99 29.26 29.53 29.81 30.11 30.43 30.78 31.18 31.67	401% 45%H 50/1H 55%H 607H 657H 707H 757H 807H 857H 907H	11.20 11.31 11.41 11.52 11.63 11.74 11.85 11.96 12.12 12.28	28.96 29.14 29.33 29.51 29.70 29.91 30.12 30.37 30.66 31.03	45TH 11.40 50TH 11.47 55TH 11.55 60TH 11.62 65TH 11.69 70TH 11.77 75TH 11.86 80TH 11.96 85TH 12.07 90TH 12.22
28.73 28.99 29.26 29.53 29.81 30.11 30.43 30.78 31.18 31.67 32.32	401% 45%H 50/1H 55%H 60/1H 657H 70/1H 757H 80/1H 85/1H 90/1H	11.20 11.31 11.41 11.52 11.63 11.74 11.85 11.98 12.12 12.28 12.47 12.73	28.96 29.14 29.33 29.51 29.70 29.91 30.12 30.37 30.66 31.03	45TH 11.40 50TH 11.47 55TH 11.55 60TH 11.62 65TH 11.69 70TH 11.77 75TH 11.86 80TH 11.96 85TH 12.07
28.73 28.99 29.26 29.53 29.81 30.11 30.43 30.78 31.18 31.67	401% 45%H 50/1H 55%H 60/1H 657H 70/1H 757H 80/1H 85/1H 90/1H	11.20 11.31 11.41 11.52 11.63 11.74 11.85 11.98 12.12 12.28 12.47 12.73	28.96 29.14 29.33 29.51 29.70 29.91 30.12 30.37 30.66 31.03 31.60 31.97	45TH 11.40 50TH 11.47 55TH 11.55 60TH 11.62 65TH 11.69 70TH 11.77 75TH 11.86 80TH 11.96 85TH 12.07 90TH 12.22
28.73 28.99 29.26 29.53 29.81 30.11 30.43 30.78 31.18 31.67 32.32	401% 45%H 50/1H 55%H 607H 657H 707H 757H 807H 857H 907H	11.20 11.31 11.41 11.52 11.63 11.74 11.85 11.98 12.12 12.28 12.47 12.73	28.96 29.14 29.33 29.51 29.70 29.91 30.12 30.37 30.66 31.03 31.60 31.97	45TH 11.40 50TH 11.47 55TH 11.55 60TH 11.62 65TH 11.69 70TH 11.77 75TH 11.86 80TH 11.96 85TH 12.07 90TH 12.22 95TH 12.44

## (121) WAIST HEIGHT, SITTING (CHEALICH)

The vertical distance from a sitting surface to the center of the navel (comphalion) is measured with an anthroponeter. The subject sits erect looking straight ahead. The knees are flexed 90 degrees. The measurement is made at the maximum point of quiet respiration.





VARIABLE NO. 121—WAIST HEIGHT, SITTING (CHEMALICA)

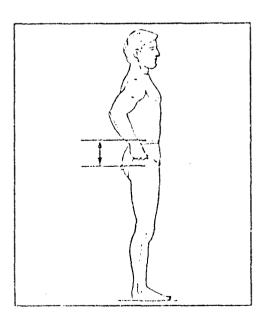
THE SA	7	4.1
4 4 4 2 7		

			···		····
THE SU	MMARY STATI	STICS	THE SUI	MARY STAT	ISTICS
CENTIMET	ERS	INCHES	CENTIMET	ers	INCHES
23.60		9.29	24.13	MEAN	9.50
0.08	SE (MEAN)	0.03	0.07	SE (MEAN)	0.03
1.43	ST DEV	0.56	1.49	ST DEV	0.59
0.06	SE(SD)	0.02	0.05	SE(SD)	0.02
	` '				
20.00	MINIMUM	7.87	19.50	MINIMUM	7.68
27.50			28.00		
COEFF. OF	VARIATION	6.0%	COEFF. OF	VARIATION	6.2%
SYMMETRY-		-0.01		VETA I	
		2.73		VETA II	
	V1/211 22	21,3	IWI (COLO	V 13111 11	3.07
NUMBER OF	STRIFCIS	334	MIMPED OF	SUBJECTS	487
nonal or	COLDECTO	224	Normal Of	COLUMNIA	407
				, marking the second se	hari-Tan Sh. P. Aphtha dan debagai Tulkan alim andra ana aba
1	PERCENTILES		•	PERCENTILES	2
CENTIMET		INCHES	CENTIMELY		INCHES
الدائدة بدائدها	Lai Vay	THATTA	CLAVI ICICII	(A) Inc.	manas
20.30	1ST	7.99	20.23	ısr	7.97
20.51		8.11	20.73		
20.83	2RD	8.20	21.05	3RD	8.29
21.15	5TH	8.33	21.48		
21.13				5TH	
	10111	8.53	22.13	10111	8.71
22.04	1571	8.68	22.56		
22.34	20111	8.79	22.89		9.01
22.59	25TH	8.90	23.17	25'111	
22.82	30TH	8,99	23.41	301.11	
23.04	35TH	9.07	23.63	35TH	9.30
23.24	40TH	9.15	23.83	40111	9.38
23.43	45TH	9.22	24.02	45'IH	9.46
23.62	50TH	9.30	24.21	50TH	9.53
23.80	55TH	9.37	24.39	55TH	9.60
23.99	60111	9.45	24.57	601H	
24.18	65TH	9.52	24.75	65TH	
24.38	701H	9.60	24.94	70111	
24.60	75'IH	9.68	25.15		9.90
24.83	80TH	9.78	25.37	80111	9.99
25.10	HTCS	9.88	25.63 25.63	HT68	
25.44	301H	10.01			
			25.97	90111	10.22
25.93	95'IH	10.21	26.47	95TH	
26.26	97711	10.34	26.83	97111	
26.50	98TH	10.43	27.10		10.67
26.89	99'IH	10.59	27.57	99TH	10.85

#### (122) WAIST-HIP LENGTH

The surface distance between the right waist (cmphalion) landmark and the right lateral-buttock-point landmark on the side of the hip is measured with a tape. The subject stands erect looking straight ahead. The heels are together with the weight distributed equally on both feet.





## VARIABLE NO. 122-WAIST-HIP LENGTH

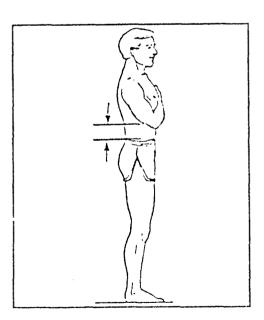
#### FEMALES

मधन द्या	Mary Stati	STITCS	THE SUMMARY STATISTIC	~
CENTIMETE		INCHES	CENTIMETERS INC	
CLIVILIBLE		11.41.		
16.05	MEAN	6.32	18.40 MEAN 7.	.24
	SE (MEAN)		0.09 SE(MEAN) 0.	.03
	ST DEV	0.79		.77
0.08	SE(SD)	0.03	0.06 SE(SD) 0.	.02
9.90	MUNIMUM			.80
21.00	MUMIXAM	8.27	24.00 MAXIMUM 9.	.45
COEFF. OF	VARIATION	12.5%	COEFF. OF VARIATION 10.	.6%
SYMMETRY-	VETA I		SYMMETRYVETA I -0.	
KURIOSIS-	VETA II	2.88	KURTOSISVETA II 3.	.04
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS 4	187
I	PERCENTILES	;	PERCENTILES	
CENTIMETE	TRS .	INCHES	CENTIMETERS INC	HES
11.10	1ST			. 39
11.60	2ND	4.57		.59
11.95		4.70		.72
12.46	5TH	4.91		.91
13.30	10TH	5.24		.21
13.87	15TH	5.46	16.31 15TH 6.	
14.33	20TH	5.64		.59
14.72	25TH	5.79	17.08 25TH 6.	
15.06	30TH	5.93		.85
15.36		6.05		.96
15.65	401H	6.16		.07
15.92	45TH	6.27		. 17
16.18	501H	6.37		.27
16.44	55TH	6.47		.37
16.69	HTOB	6.57	18.96 60TH 7	.47
16.94	65TH	6.67	19.22 65TH 7	.57
17.20	70TH	6.77		.67
17.48	<b>7</b> 5TH	6.88	<b>19.</b> 76 <b>7</b> 5TH 7	.78
17.77	HI08	7.00	20.07 80TH 7	.90
18.11	85TH	7.13	20.42 85TH 8	.04
18.53	90TH	7.30	20.87 90TH 8	.22
19.16	95'IH	7.54	21.53 95TH 8	.48
19.59	97TH	7.71	21.97 97TH 8	.65
19.93	98TH	7.84	22.31 98TH 8	.78
20.50	99TH	8.07	22.86 99TH 9	.00

# (123) WAIST (NEIURAL INDENTATION) -WAIST (CAPPALION) LENGTH

The surface distance between the right waist (natural indentation) and right waist (cmph lion) landmarks is measured with a tape. The subject stands erect looking straight ahead. The heels are together with the weight distributed equally on both feet.





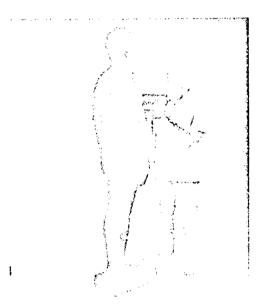
# VARIABLE NO. 123-WAIST (NATURAL INCENTATION)-WAIST (CMPHALION)

## FEMALES

THE SUM	MARY STATI	STICS		THE SUM	MARY STATI	STICS
CENTIMETE		INCHES		CENTIMETE	RS	INCHES
7 60	MEAN	2 99		6.92	MEAN	2.72
					SE (MEAN)	0.03
	SE (MEAN)					
	ST DEV	0.85			ST DEV	
0.08	SE(SD)	0.03		0.06	SE (SD)	0.02
0.90	MUNIMUM	0.35		1.80	MUNIMUM	0.71
14.90	MAXIIIUM	5.87		12.60	MAXIMUM	4.96
OFFF OF	VARIATION	28.3%		COEFF. OF	ארדייימדקעע	25 3%
SYMMETRY		0.17		SYMMETRY		0.09
KURTOSIS	VETA II	3.50		KURTOSIS	VETA II	3.12
NUMBER OF	SUBJECTS	334		NUMBER OF	SUBJECTS	487
			_			
I	PERCENTILES	}		F	ERCENTILES	5
CENTIMETE		INCHES		CENTIMETE		INCHES
our a mar				W111111111		
2.15	1ST	0.85		2.70	1ST	1.06
				3.33	2ND	
3.12	2ND	1.23				
3.65	3RD	1.44		3.69	3RD	1.45
4.27	5TH	1.68		4.14	5TH	1.63
5.08	10TH	2.00		4.77	10TH	1.88
5.56	15TH	2.19	•	5.17	15TH	2.03
5.92	20TH	2.33		5.48	20TH	2.16
6.22	25TH	2.45		5.74		
6.49	30TH	2.56		5.98	301H	
ನೆ.75	35TH	2.66		6.21		
5.99	40TH	2.75		6.42	40TH	2.53
7.23	45TH	2.85		6.64	45TH	2.61
7.48	50TH	2.94		6.85	50TH	2.70
7.73	551H	3.04		7.07	55TH	
8.00	60TH	3.15		7.30	60TH	
8.28	65TH	3.26		7.53	65TH	
8.58	70TH	3.38		7.79	70TH	3.07
8.93	75TH	3.51		8.06	75TH	3.18
9.32	HIOS	3.67		8.38	80TH	
9.79	85TH	3.86		8.75	85TH	3.44
10.41	90TH	4.10		9,21	90TH	
11.32	95TH	4.46	,	9.87	95TH	
11.90	97TH	4.69		10.26	97TH	4.04
12.31	98TH	4.85		10.53	98TH	
12.90	99TH	5.08		10.89	99TH	
12.00	J J 444	2.00		20102	J J 444	

# (124) WEIGHT

The weight of the subject is taken to the nearest tenth of a kilogram. The subject stands on the platform of a scale.



#### VARIABLE NO. 124—WEIGHT

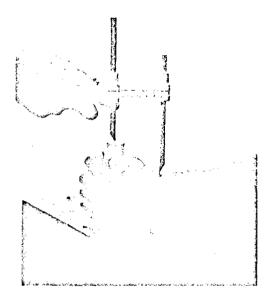
#### FEMALES

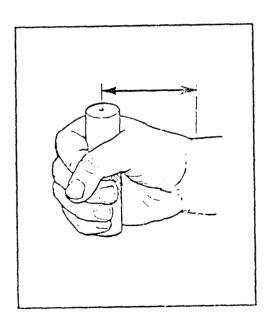
#### MALES

			· ·		
THE SUM	MARY STAT	ISTICS	THE S	SUMMARY STAT	ISTICS
KILOGRAM	5	POUNDS	KILOG	RAMS	POUNDS
65.51	MEAN	144.12	79.9	97 MEAN	175.93
0.47	SE (MEAN)	1.03	0.4	44 SE (MEAN)	0.97
8.54	ST DEV		9.6		21.19
0.33	SE(SD)	0.73	0.3		0.68
46.40	MUNIMUM	102.08	56.9	MUMINIM OF	125.18
96.70	MAXIMUM	212.74	113.6	MAXIMUM	249.92
COEFF. OF	VARIATION	13.0%	COEFF. (	OF VARIATION	12.0%
SYMMETRY-	VETA I	0.54		YVETA I	
KURTOSIS-	VETA II	3.54	KURTOSIS	SVETA II	2.84
NUMBER OF	SUBJECTS	334	NUMBER (	OF SUBJECTS	487
P	ERCENTILES	3		PERCENTILE	
KILOGRAM		POUNDS	KILOG		POUNDS
47.84	1ST	105.23	60.2	22 1ST	132.48
49.79	2ND	109.54	62.3	30 2ND	137.06
51.00	3RD	112.20	63.5	58 3RD	139.68
52.64	5TH	115.81	65.3	32 5TH	143.70
55.17	10TH	121.37	68.0	05 10TH	149.71
56.90	15TH	125.18	69.9	98 <b>15</b> TH	153.96
58.29	20TH	128.24	71.5	57 20TH	156.79
59.52	25TH	130.94	73.0	00 25TH	160.60
60.64	30TH	133.41	74.3	32 30TH	163.51
61.69	35TH	135.72	<b>7</b> 5.5	59 35TH	166.30
62.71	40TH	137.96	76.8	32 40TH	169.00
63.72	45TH	140.18	78.0	05 45TH	171.71
64.74	501H	142,43	79.2	29 50TH	174.44
65.78	55TH	144.72	80.5	57 55TH	177.25
66.86	60TH	147.09	81.8	39 60TH	180.16
68.01	65TH	149.62	83.2	28 65TH	183.22
69.25	70TH	152.35	84.7		186.49
70.63	75TH	155.39	86.4	11 75TH	190.10
72.23	HI08	158.91	88.2	28 80TH	194.22
74,15	85TH	163.13	90.4		198.99
76.70	90TH	168.74	93.2		205.04
80.73	95TH	177.61	97.1		213.77
83.52	97TH	183.74	99.6		219.16
85.66	98TH	188.45	101.3		222.88
89.18	99TH	196.20	103.7		228.21

#### (125) WRIST-CENTER OF GRIP LENGTH

The horizontal distance between the stylion landmark on the right wrist and the center of a dowel (1-1/4" diameter) gripped in the right hand is measured with a Poech caliper. The subject sits grasping a dowel in the right hand. The base of the dowel is flush with the bottom of the fist. The subject puts the bottom of the fist on a flat surface in such a way that the base of the dowel rests on the surface. The fist is in line with the long axis of the forearm.





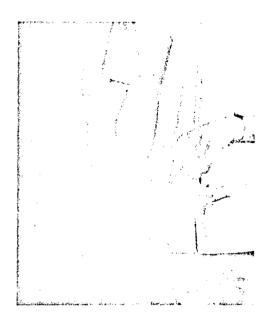
## VARIABLE NO. 125-VRIST-CENTER OF CRIP LENGIN

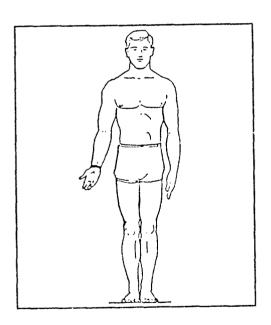
## FEMALES MALES

			-	<del></del>		<del></del>
	MARY STATE				MARY STATI	
CENTIMET	eko .	INCHES		CENTIMETE	te)	INCHES
	MEAN	2.64		6.80		2.68
	SE (MEAN)	0.01		0.02		0.01
0.50		0.20			ST DEV	0.18
0.02	SE(SD)	0.01		0.01	SE (SD)	0.01
5.70		2.24		5.70		
8.10	MAXIMUM	3.19		8.20	MUMIXAM	3.23
COEFF. OF	VARIATION	7.4%		COEFF. OF	VARIATION	6.7%
SYMMETRY-	VETA I	0.38		SYMMETRY-	VETA I	0.26
KURTOSIS-	VETA II	2.71		KURTOSIS-	VETA II	2.85
NUMBER OF	SUBJECTS	334		NUMBER OF	SUBJECTS	487
			-			
	PERCENTILES			-	ERCENTILES	
CENTIMET	ERS	INCHES		CENTIMETE	R3	INCHES
5.70		2.24		5.90	ist	
5.80		2.28		5.96	2ND	2.34
5.87	3RD	2.31		6.00	3RD	2.36
5.95	5TH	2.34		6.08	5TH	2.39
6.08	10TH	2.40		6.22	10TH	2.45
6.18	15TH	2.43		6.32	15TH	
6.26	2011	2.46		6.40	20TH	2.52
6.33	25TH	2.49		6.47	25TH	2.55
6.40	30TH	2.52		6.54	30TH	2.58
6.46	35TH	2.54		6.60	35TH	2.60
6.52	40TH	2.57		6.67	40TH	
6.59	45TH	2.59		o.72	45TH	2.65
6.65		2.62		6.78	50IH	
6.72	55TH	2.64		6.84	55TH	2.69
6.79		2.67		6.90	60IH	2.72
6.86		2.70		6.96	65TH	2.74
6.94	70TH	2.73		7.03	70TH	2.77
7.02	75TH	2.77		7.10	751H	2.80
7.12	8CTH	2.77		7.10 7.18	75IN HI08	2.83
7.12						
	85TH	2.85		7.28	85TH	
7.38	+	2.91		7.40	90TH	2.91
7.60		2.99		7.59	95TH	
7.73	97TH	3.04		7.72	97TH	3.04
7.82	98TH	3.08		7.82	98TH	3.08
7.95	99TH	3.13		7.99	99TH	3.14

## (126) WRIST CIRCUFFERENCE

The circumference of the wrist perpendicular to the long axis of the forearm is measured with a tape passing over the stylion landmark on the wrist. The subject extends the right arm forward with the palm up.





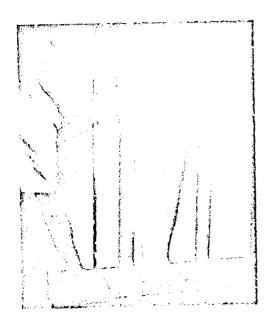
## VARIABLE NO. 126-WRIST CIRCUMFERENCE

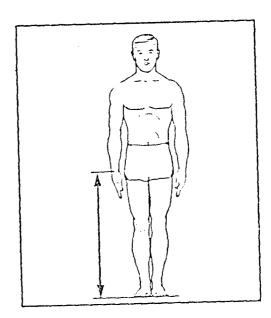
FEMALES

	Mary Stati:	STICS	THE SUM	ary stati	ISTICS
CENTIMETE	rs :	INCHES	CENTIMETER	ප	INCHES
15 22	MEAN	6.03	17.40	SATURAT	C 05
	MILAN SE (MEAN)	0.01	17.40	MEAN SE (MEAN)	6.85
	ST DEV	0.25		ST DEV	
0.02	SE (SD)	0.23	0.02		0.30 0.01
0.02	טב (טט)	0.01	0.02	SE(SU)	0.01
13.60	MUNIMUM	5.35	14.80	MINIMUM	5.83
17.40	MAXIMIM	6.85	19.90	MAXIMUM	7.83
	VARIATION		COEFF. OF V		
	VETA I		SYMMETRY——		
KURTOSIS-	VETA II	2.82	KURIOSIS	-VERA II	3.22
NUMBER OF	SUBJECTS	334	NUMBER OF S	UBJECTS	487
70	ERCENTILES		TI	TANKITET DA	*
CENTIMETE		INCHES	CENTIMETER	RCENTILES ×	INCHES
CLEVILLE		LITCI III	CHITTETER	<b>.</b>	Inchia
13.98	1ST	5.50	15.78	1ST	6.21
14.10	2ND	5.55	15.94	2ND	
14.19	3RD	5.59	16.05	3RD	6.32
14.31	5TH	5.64	16.20	5TH	
14.52	10TH	5.72	16.45	10TH	6.48
14.66	15TH	5.77	16.63	15TH	6.55
14.78	20TH	5.82	16.77	20TH	6.60
14.89	25TH	5.86	16.89	25TH	6.65
14.98	301H	5.90	17.00	30TH	6.69
15.07	35TH	5.93	17.10	35TH	6.73
15.15	40TH	5.97	17.20	40IH	6.77
15.24	45TH	6.00	17.30	45TH	6.81
15.32	50TH	6.03	17.39	50TH	6.85
15.40	55TH	6.06	17.48	55TH	6.88
15.48	60TH	6.10	17.58	601H	6.92
15.57	65TH	6.13	17.68	65TH	6.96
15.66	70TH	6.16	17.78	70TH	7.00
15.76	75TH	6.20	17.90	75TH	7.05
15.86	HTOS	6.25	18.03	HTOS	7.10
15.99	85TH	6.29	18.18	85TH	7.16
16.15	90TH	6.36	18.38	90TH	7.24
16.37	95TH	6.45	18.69	95TH	7.36
16.52	97TH	6.50	18.90	97TH	7.44
16.63	98TH	6.55	19.06	98TH	7.50
16.79	99TH	6.61	19.33	99TH	7.61
10.75	J J 111	0.01	19.33	2211	7.01

## (127) WRIST HEIGHT

The vertical distance between a standing surface and the stylic landwark on the right wrist is measured with an anthroposeter. The subject stands erect looking straight ahead with the heels together and the weight distributed equally on both feet. The shoulders are relaxed and the arms are extended downwards with the elbow, wrist, and fingers held rigidly straight. The arms lightly touch the sides. The measurement is taken at the maximum point of quiet respiration.





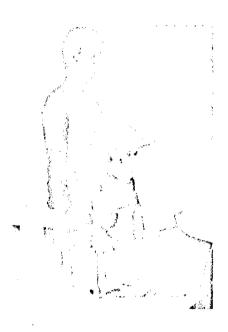
### VARIABLE NO. 127-WRIST HEIGHT

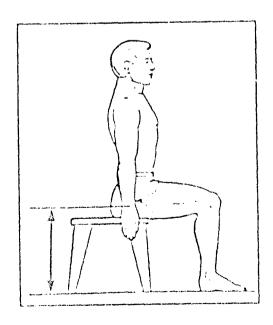
### FEMALES

<del></del>	····		• • • • • • • • • • • • • • • • • • • •		***************************************
THE SUM	mary stati IRS	STICS INCHES	THE SU CENTIMET	mmary stati Ers	ISTICS INCHES
02.00	MUNAT	22 20	85.71	MEAN	22 23
	MEAN				
	SE (MEAN)	0.07		SE (MEAN)	
	ST DEV	1.28		ST DEV	
0.13	SE (SD)	0.05	0.12	SE(SD)	0.05
72.20	MINIMUM	28.43	72.70	MINIMIM	28.62
93.90	MUMIXAM	36.97	97.30	MAXIMUM	38.31
COEFF. OF	VARIATION	4.0%	ŒFF. OF	VARIATION	4.5%
SYMMETRY-		0.02		VETA I	
KURTOSIS-		3.29	KUPIOSIS-	VETA II	3.15
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
			- derrocker		<u></u>
I	PERCENTILES	3		PERCENTILE	3
CENTIMETE	RS	INCHES	CENTIMET	ers	INGIES
73.99	1ST	29.13	75.99	1ST	29.92
75.09	2ND	29.56	77.37	2ND	30.46
75.76	3RD	29.83	78.21		
74.61	51H	30.16	79.29	5TH	31.22
77.86	101H	30.66	80.86		
78.68	15TH	30.98	81.36	15TH	32.23
79.31	20TH	31.22	82.63		J2.53
79.85	25TH	31.44	83.28		32.79
80.33	301H		83.86		33.01
80.77	35TH	31.80	84.38	35111	33.22
81.19	40TH	31.96	84.87		
81.60	45TH	32.12	85.34		
82.00	50TH	32.28	85.81		
82.40	55TH	32.44	86.27		33.97
82.81	60TH	32.60	86.74		
83.24	65TH	32.77	87.23		34.34
83.68	70111	32.95	87.74		34.54
84.17	75TH	33.14	88.29		
84.71	HI08	33.35	88.91		
85.34	85 <b>TH</b>	33.60	89.64	85TH	
86.13	90TH	33.91	90.56		35.65
87.26	95TH	34.36	91.95		36.20
87.97	97'IH	34.63	92.86		36.56
88,47	·	34.83	93.54	HTBC	
89.20	99711	35.12	94.61		

### (128) WRIST HEIGHT, SITTING

The vertical distance between the floor and the stylion landmark on the right wrist of a seated subject is measured with an anthropometer. The subject sits erect with the trochanter landmark on the hip lined up with a marker placed about 7 cm from the front edge of the seat. The subject looks straight ahead. The shoulders are relaxed and the arms are extended downwards with the elbow, wrist, and fingers held rigidly straight. The arms lightly touch the sides. The measurement is taken at the maximum point of quiet respiration with the subject holding his/her breath. Note: The height of the seat used in this measurement was 45.5 cm.





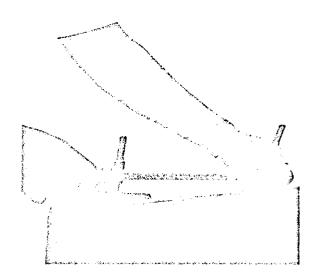
VARIABLE NO. 128-WRIST HEIGHT, SITTING

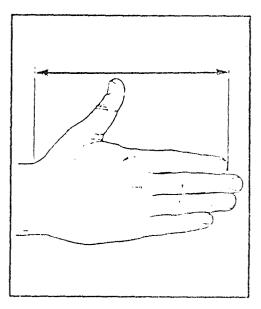
FEMALES

	MARY STATI			TARY STATISTICS
CENTIMETE	<b>10</b>	INCHES	CENTIMETER	inches
48 13	MEAN	18.95	47.19	MEAN 18.58
0.14	SE (MEAN)	0.06		SE(MEAN) 0.05
	ST DEV			ST DEV 1.21
0.10	SE(SD)	0.04	0.10	
0.10	05(00)	0.01	<b>0.2</b> 0	52(52)
39.00	MINIMUM	15.35	38.40	MINIMUM 15.12
55.80	MAXIMUM	21.97	56.60	MAXIMUM 22.28
COEFF. OF	VARIATION	5.48	COEFF. OF V	VARIATION 6.5%
SYMMETRY-	VETA I	-0.14	SYMMETRY	-VETA I -0.06
KURTOSIS				-VETA II 3.02
NUMBER OF	SUBJECTS	334	NUMBER OF S	SUBJECTS 487
Ţ	PERCENTILES		PF	RCENTHES
CENTIMETE		INCHES	CENTIMETE	
41.74	1ST	16.43	39.32	1ST 15.48
42.54	2ND	16.75	40.52	2ND 15.95 3RD 16.23
43.05	3RD	16.95	41.22	3RD 16.23
43.75	5TH	17.22	42.10	5TH 16.57
44.81	10TH	17.64	43.33	10TH 17.06
45.50	15TH	17.91	44.11	15TH 17.37
46.04	201H 251H	18,13	44.71	20TH 17.60 25TH 17.80
46.49	257H	18.30	45.21	25TH 17.80
46.89	30TH	18.46	45.65	30TH 17.97
47.25	35TH		46.06	
47.59	40TH	18.74	46.45	40TH 18.29
47.91	45TH	18.86	46.83	45TH 18.44
48.23	45TH 50TH	18.99	47.20	45TH 18.44 50TH 18.58
48.54	55TH	19.11	47.57	55TH 18.73
48.85	60TH	19.23	47.95	60TH 18.88
49.16	65'IH	19.36	48.35	65TH 19.04
49.50	70111	39.49	48.77	70TH 19.20
49.86	75TH	19.63	49.23	75TH 19.38
50.26	HIOS	19.79	49.74	80TH 19.58
50.73	85TH	19.97	50.34	
51.35	90111		51.09	
52.31	95TH	20.59	52.19	95TH 20.55
52.99	971H		52.87	97TH 20.82
53.52	98711		53.36	
54.44	997H	21.43	54.07	98TH 21.01 99TH 21.29
24.44	27111	61.43	54.07	27111 61.63

#### (129) VRIST-DIEX FINGER LANGIH

The distance between the stylion landmark on the right wrist and the tip of the right index finger is measured with a Poech caliper. The subject places the palm on a table, the fingers together, and the thumb abducted. The middle finger is parallel to the long axis of the forearm. The two distal phalanges of the fingers lie on a flat surface 8 mm higher than the table.





## VARIABLE NO. 129-WRIST-INEX FINGER LENGTH

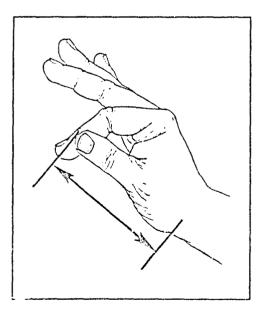
## FEMALES

THE SUM	Mary Stati	ISTICS	THE SUM	Mary Stat	ISTICS
CENTIMETE	RS	INCHES	CENTIMETE	RS	INCHES
17 10	MEAN	6 77	18.14	MEAN	7.14
	SE (MEAN)		0.04		
	ST DEV	0.26	0.83		0.33
0.00	SE (SD)	0.20	0.03		0.01
0.03	SE(SU)	0.01	0.03	3E(3U)	0.01
	MUNIMUM			MINIMM	
20.10	MAXIMUM	7.91	20.20	MAXIMIM	7.95
COEFF. OF	VARIATION	3.8%	COEFF. OF	VARIATION	4.6%
SYMMETRY-	VETA I	0.51	SYMETRY—		0.09
KUPTOSIS-		3.94	KURIOSIS-	-VETA II	2.61
NUMBER OF	SURJECTS	334	NUMBER OF	SURVECTS	487
***************************************	FRCENITILES	•	•	ERCENTILE	***
CENTIMETE		INCHES	CENTIMETE		INCHES
CENTIMETE		TIACUES	CENTIPIETE	ara)	TACUES
15.69	1ST	6.13	16.46	1ST	6.48
15.91	2ND	6.26	16.59		6.53
16.03	3RD	6.31	16.69	3RD	6.57
16.19	5TH	6.37	16.83	5TH	6.63
16.41	10TH	6.46	17.07	10TH	6.72
16.55	15TH	6.52	17.26		
16.66	20TH	6.56	17.41	20TH	6.85 6.91
16.75	25TH	6.60	17.54	25'IH	6.91
16.84	30TH	6.63	17.67	30TH	6.95
16.92	357 <b>H</b>	6.66	17.78	35TH	7.00
16.99	40TH	6.69	17.90	401H	7.05
17.07	45TH	6.72	18.01	45TH	
17.14	50TH	6.75	18.12	50TH	7.13
17.22	55'TH	6.78	18.23	55TH	7.18
17.30	60TH	6.81	18.34		
17.39	65TH	6.85	18.46		
17.48	70TH	6.88	18.59	70IH	7.32
17.59	75TH	6.92	18.72	75TH	7.37
17.71	HIOS	6.97	18.87	H108	7.43
17.85	85TH	7.03	19.04	85711	7 50
18.05	90TH	7.10	19.25		7.58
18.35	95'iH	7.22	19.55	95TH	7.70
18.55	97TH	7.30	19.73		
18.70	98TH	7.36	19.86	97111 HT80	
18.95	99TH	7.46	20.04	99TH	7.82
20.00		7.4-10	20.04	2221	1.07

#### (130) WRIST-THIMBITP LENGTH

The horizontal distance between the stylion landmark on the right wrist and the tip of the right thumb is measured with a Pcech caliper. The subject rests the little finger side of the hand on a flat surface. The thumb is held straight and in line with the long axis of the forearm. The thumb rests on the first knuckle of the curved index finger.





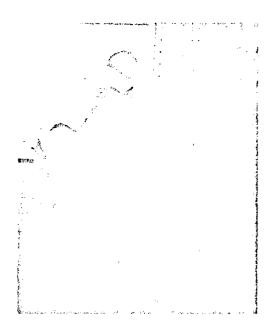
### VARIABLE NO. 130-WRIST-THUMBTTP LENGTH

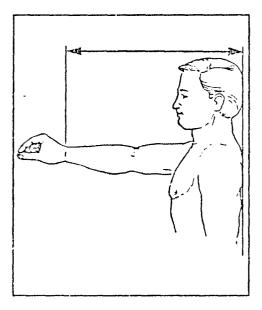
FEMALES

	mary stati		THE SUMMARY STAT	
CENTIMETE	RS	INCHES	CENTIMETERS	INCHES
11.91			12.44 MEAN	
	SE (MEAN)	0.01	0.03 SE (MEAN)	
	ST DEV	0.20	0.62 ST DEV	
0.02	SE(SD)	0.01	0.02 SE(SD)	0.01
10 50	MINIMUM	4.13	10.70 MINIMUM	4 21
	MAXIMUM	5.43	14.10 MAXIMUM	
13.60	PIAALPIOPI	3.43	14.10 PAXIPON	5.55
CUEFF. OF	VARIATION	4.4%	COEFF. OF VARIATION	v 5.0%
	VETA I	0.40		0.02
KURTOSIS-		3.24	KURTOSISVETA II	2.78
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS	487
T	PERCENTILES		PERCENTILI	25
CENTIMETE		INCHES	CENTIMETERS	INCHES
W4121211	20	11.01110	**************************************	2110222
10.85	1ST	4.27	11.01 1ST	4.33
10.98	2ND	4.32	11.17 2ND	4.40
11.06	3RD	4.35	11.27 3RD	4.44
11.15	5TH	4.39	11.41 5TH	
11.29	1011	4.45	11.63 101H	
11.39	15TH	4.48	11.78 15TH	
11.46	20TH	4.51	11.90 20TH	
11.54		4.54	12.00 25TH	
11.60	30TH	4.57	12.10 25TH	
11.67	35TH	4.59	12.10 3011 12.18 35TH	
11.73	40TH	4.62	12.27 40TH	
11.79	45TH	4.64	12.35 45TH	
11.86	50TH	4.67	12.43 50TH	-
11.93	55TH	4.69	12.51 55TH	4.93
12.00	60TH	4.72	12.59 60TH	4.96
12.07	65TH	4.75	12.68 65TH	4.99
12.15	70TH	4.78	12.77 70TH	5.03
12.24	75TH	4.82	12.87 75TH	5.07
12.34	80TH	4.86	12.98 80TH	- · · · ·
12.46	85TH	4.91	13.10 85TH	=
12.61	90TH	4.97	13.26 90TH	
12.82	95TH	5.05	13.48 95TH	
12.94	97TH	5.10	13.62 97TH	
13.02	HT86	5.13	13.72 98TH	5,40
13.12	99TH	5.16	13.86 99TH	5.46

#### (131) WRIST-WALL LENGTH

The horizontal distance between a back wall and the stylion landmark on the right wrist of the cutstretched arm is measured on a wall scale. The subject stands erect in a corner looking straight ahead with the feet together and the heels 20 cm from the back wall. The buttocks and shoulders are against the wall. The right arm and hand with the palm down are stretched forward horizontally against a scale on the side wall. The thumb continues the horizontal line of the arm and the index firger curves around to touch the pad at the end of the thumb. The subject's right shoulder is held against the rear wall.





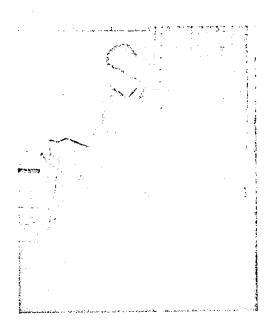
## VARIABLE NO. 131-WRIST-WALL LENGTH

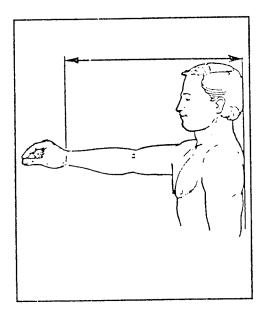
## FEMALES

			······································		
THE SU	Mary Stati	STICS	THE S	UMARY STAT	ISTICS
CENTIMET	RS	INCHES	CENTIM	HERS	INCHES
63.39	MEAN	24.96	68.3	32 MEAN	26.90
0.13	SF (MEAN)	0.05	0.1	L5 SE (MEAN)	0.06
2.32	ST DEV	0.91	3.3		
0.09	SE(SD)	0.04	0.1		0.04
	()	2001	`		0.04
57.80	MUMIMUM	22.76	59.5		
70.90	MAXIMUM	27.91	80.3	MAXIMIM 08	31.61
COEFF. OF	VARIATION	3.7%	COEFF. C	OF VARIATION	4.9%
SYMMETRY—	VETA I	0.32	SYMMETRY	VETA I	0.21
KURTOSIS-	VETA II	2.96	KURTOSIS	VETA II	3.18
NUMBER OF	SUBJECTS	334	NUMBER O	F SUBJECTS	487
_	PERCENTILES			PERCENTILE	S
CENTIMETE	TRS .	INCHES	CENTIME	TERS	INCHES
58.72	1ST	23.12	61.5	6 1ST	24.24
59.09	2ND	23.26	61.8		24.36
59.36	3RD	23.37	62.2		24.49
59.77	5TH	23.53	62.8		24.73
60.45	10TH	23.80	63.9		25.17
60.95	15TH	24.00	64.8		25.51
61.36	20TH	24.16	65.4		25.78
61.73	25TH	24.30	66.0		26.02
62.07	30TH	24.44			
62.38	35TH	24.56	66.6 67.1		26.23
62.68					26.42
	40TH	24.68	67.5		26.59
62.98	45TH	24.79	67.9		26.76
63.27	50TH	24.91	68.3		26.92
63.57	55TH	25.03	63.7	9 55TH	27.08
63.88	60TH	25.15	69.1	.9 60TH	27.24
64.20	65TH	25.27	69.5	9 65TH	27.40
64.53	70TH	25.41	70.0	0 70TH	27.56
64.90	75TH	<b>25.5</b> 5	70.4	5 75TH	27.74
65.32	HT08	25.72	70.9		27.93
65.81	85TH	25.91	71.5		28.17
66.44	90TH	26.16	72.3		28.48
67.39	95TH	26,53	73.6		29.00
68.04	97TH	26.79	74.7		
68.52	98TH	26.79			29.41
69.30	981H 99TH	27.29	75.6		29.76
09.30	מזענ	21.29	77.2	7 99TH	30.42

### (132) WRIST-WALL LENGTH, EXTENDED

The horizontal distance between a back wall and the stylion landmark on the right wrist of the maximally outstretched arm is measured on a wall scale. The subject stands erect in a corner looking straight ahead with the feet together and the heels 20 cm from the back wall. The buttocks and the left shoulder are against the wall. The right arm and hand with the palm down are stretched forward horizontally as far as possible against the side wall. The thumb continues the horizontal line of the arm and the index finger curves around to touch the pad at the end of the thumb. The subject's left shoulder is held against the rear wall.





## VARIABLE NO. 132-WRIST-WALL LENGTH, EXTENDED

## FEMALES

			_		
	Mary Stati			mmary stat	
CENTIMETE	RS	INCHES	CENTIMET	ERS	INCHES
69.51	MEAN	27.36	73.90	MEAN	29.09
0.13	SE (MEAN)	0.05	0.15	SE (MEAN)	0.06
2.43	ST DEV	0.96	3.42		1.34
0.09	SE(SD)	0.04	0.11		0.04
0.03	DECOD	0.04	0.11	. DL(3D)	0.04
	MUNIMUM		64.70		
80.80	MAXIMUM	31.81	85.30	MAXIMUM	33.58
COEFF. OF	VARIATION	3.5%	COEFF. OF	' VARIATION	4.6%
SYMMETRY-		0.44		VETA I	
KURTOSIS-		3.87		VETA II	
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
p	ERCENTILES			PERCENTILE	<b>S</b>
CENTIMETE		INCHES	CENTIMET		INCHES
CLEVILLE		ייייייייייייייייייייייייייייייייייייייי	CLA LL LL	1445	1114111
64.89	1ST	25.55	66.69	1ST	26.26
65.10	2ND	25.63	67.38	2ND	26.53
65.31	3RD	25.71	67.85	3RD	26.71
65.69	5TH	25.86	68.52	5TH	26.98
66.39	10IH	26.14	69.62		
66.94		26.35	70.39		
67.39	20TH	26.53	71.01		
	20111	20.55			
67.80	25TH	26.69	71.55		
68.16	30TH		72.04		
68.51	35TH		72.50		
68.83	40TH		72.94		
69.14	45TH	27.22	73.36		
69.45	50TH	27.34	73.78	50TH	29.05
69.76	55TH	27.47	74.20	55TH	29.21
70.08	60TH	27.59	74.63	60TH	29.38
70.40	65TH	27.71	75.08		
70.73	70TH	27.85	75.56		
71.09	75TH		76.08		
71.50		28.15	76.68		
	80TH				
71.97		28.34	77.37		
72.58	90TH	28.57	78.29		
73.53	95TH	28.95	79.72		
74.19	97TH	29.21	80.70	97TH	31.77
74.71	98TH	29.41	81.47	98TH	32.08
75.61	99TH	29.77	82.76		

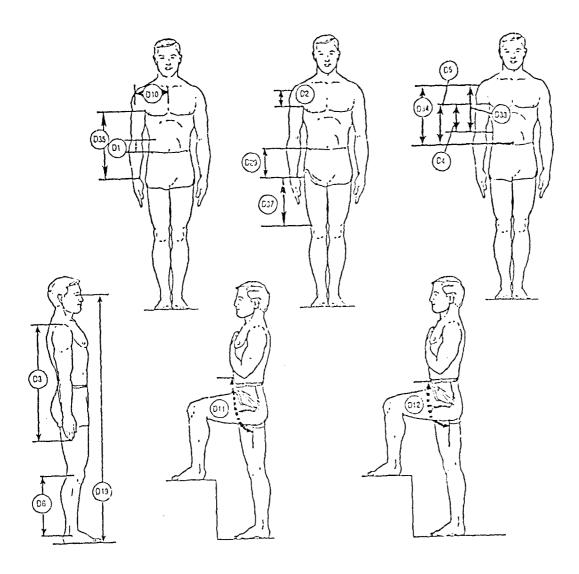
#### CHAPTER V

#### THE DERIVED DIMENSIONS

While logistics demand a reasonable limit to the number of dimensions that can be measured in an anthropometric survey, there is an almost infinite number of additional dimensions that can be calculated from the measured data. Some 60 additional dimensions, concentrated in areas applicable to clothing, workspace, and analog design, were derived from the measured dimensions in this survey. These are intended to meet some of the more specialized needs of designers and engineers in these fields, though users should be cautioned that calculated data may not be as consistently reliable as data obtained by direct measurement. A discussion of estimated observer error for the derived dimensions can be found in chapter VII of NATICK/TR-89/044 1988 Anthropometric Survey of U.S. Army Personnel: Methods and Summary Statistics.

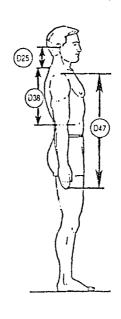
A visual index begins on the next page and is followed by the data pages, which include dimension descriptions, summary statistics and percentile tables.

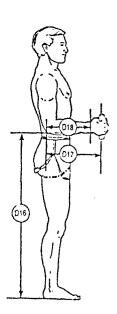
# VISUAL INDEX - DERIVED DIMENSIONS

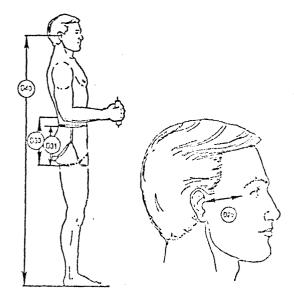


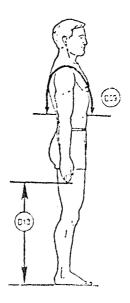
- (D1) ABDOMINAL LINK
- (D2) ACROMION-AXILLA LENGTH
- (D3) ARM LENGTH
- (D4) AXILLA-WAIST LENGTH (NATURAL INDENTATION)
- (D5) AXILLA-WAIST LENGTH (OMPHALION)
- (D6) CALFLINK
- (D10) CLAVICLE LINK
- (D11) CROTCH LENGTH, ANTERIOR (NATURAL INDENTATION)

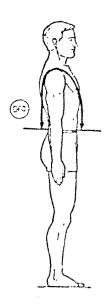
- (D12) CROTCH LENGTH ANTERIOR (OMPHALION)
- (D19) EYE HEIGHT
- (D29) PELVIC LINK
- (D33) SHOULDER-WAIST LENGTH (NATURAL INDENTATION)
- (D34) SHOULDER-WAIST LENGTH (OMPHALION)
- (D35) SLEEVE INSEAM
- (D37) THIGH LINK

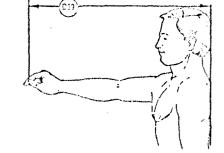






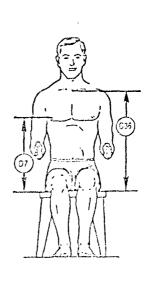


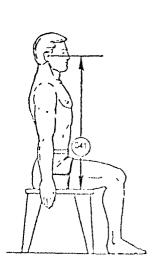


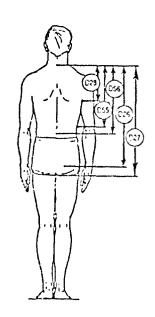


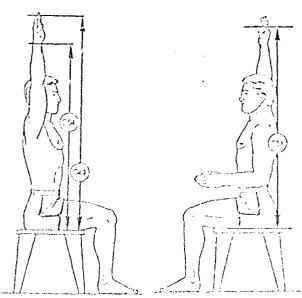
- (D25) NECK LINK
- (D30) RISE (NATURAL INDENTATION)
- (D31) RISÉ (OMPHALION)
- (D38) THORAX LINK
- (D39) THUMBTIP REACH, EXTENDED
- (D40) TRAGION HEIGHT
- (D47) VERTICAL INDEX FINGERTIP REACH DOWN
- (D59) WAIST-WAIST (NATURAL INDENTATION) OVER SHOULDER
- (D60) WAIST-WAIST (OMPHALION) OVER SHOULDER

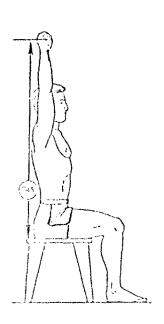
- (D13) DACTYLION HEIGHT
- (D16) ELBOW REST HEIGHT, STANDING
- (D17) ELBOW-CENTER OF GRIP LENGTH
- (D18) ELBOW-WRIST LENGTH
- (D20) EYE-TRAGION LINK





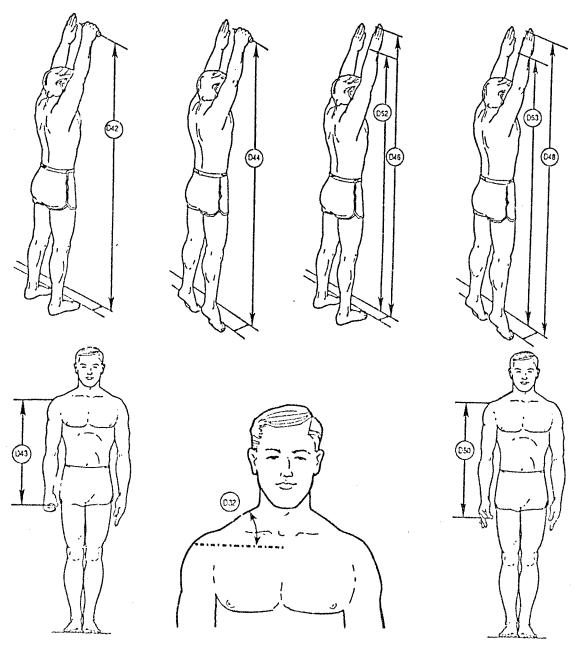




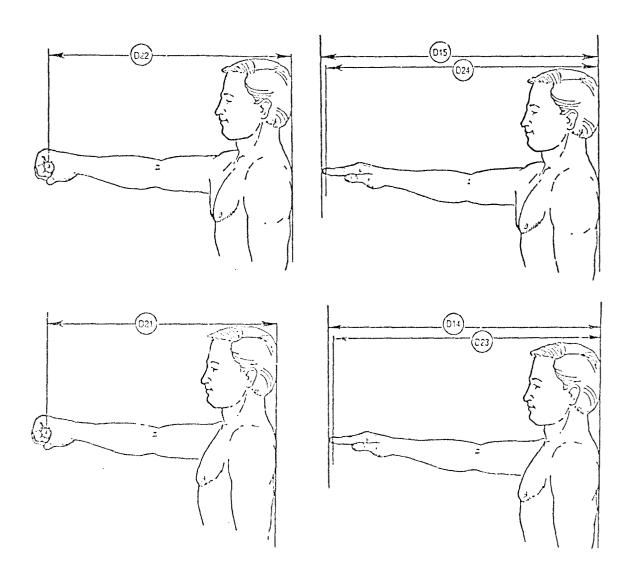


- (D7) CHEST HEIGHT, SITTING
- (D26) NECK-BUTTOCK LENGTH
- (D17) NECK-GLUTEAU FURROW LI NOTH
- (DES) NECK-SOYELENGTH
- (916) SUIRASTERMALE HEICHT, SITTING
- (D41) TRAGION HEIGHT, SITTING
- (DAG) VERTICAL GRIP REACH, SITTENG

- (D40) VERTICAL ÍNDEX FINGERTIP REACH, SITTENG
- (D31) VERTICAL THUMBTIP REACH, SITTING
- (DS4) VERTICAL WRIST HEIGHT, STITING
- (1945) WAISTBACK, VERTICAL (NATURAL INDENTATION)
- (DS6) WAIST BACK, VERTICAL (OMPHALION)



- (D32) SHOULDER SLOPE
- (D12) VERTICAL GRIP REACH
- (D43) VERTICAL GRIP REACH DOWN
- (D44) VERTICAL GRIP REACH, EXTENDED
- (D46) VERTICAL INDEX FINGERTIP REACH
- (D48) VERTICAL INDEX FINGERTIP REACH, EXTENDED
- (D50) VERTICAL THUMBTIP REACH DOWN
- (D52) VERTICAL WRIST HEIGHT
- (D53) VERTICAL WRIST HEIGHT, EXTENDED



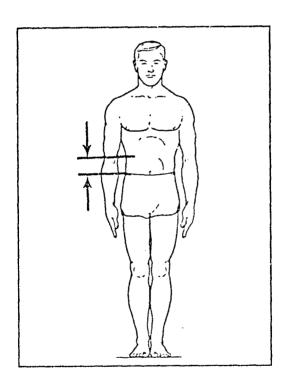
- (D14) DACTYLION REACH FROM WALL
- (D15) DACTYLION REACH FROM WALL, EXTENDED
- (D21) FUNCTIONAL GRIP REACH
- (D22) FUNCTIONAL GRIP REACH, EXTENDED
- (D23) INDEX FINGER REACH
- (D24) INDEX FINGER REACH, EXTENDED

## DERIVED VALUES, NOT ILLUSTRATED:

- (D8) CHEST-WAIST DROP, NATURAL INDEN-TATION
- (D2) CHEST-WAIST DROP, OMPHALION
- (D57) WAIST-BUTTOCK DROP (NATURAL INDENTATION)
- (DE9) WAIST-BUTTOCK DROP (OMPHALION)

### (D1) AEDCMINAL LINK

The vertical distance between the inferior point of the right tenth rib and the iliccristale landmark on the top of the right side of the pelvis is calculated as follows: TENTH RIB HEIGHT minus ILICCRISTALE HEIGHT.



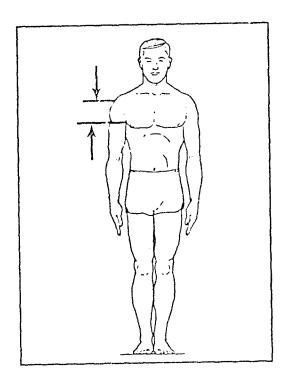
## VARIABLE NO. (D1) -AEDOMINAL LIGK

## FEMALES

					<del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>
THE SUM	Mary Stati RS	STICS INCHES	THE SI CENTIME	UMMARY STAT TERS	ISTICS INCHES
E 27	3.602337	2 07		3.07337	2 77
	MEAN			1 MEAN	
	SE (MEAN)			6 SE (MEAN)	
	ST DEV	0.62		5 ST DEV	
0.06	SE(SD)	0.02	0.0	4 SE(SD)	0.02
	MUNIMUM		-0.3	MLMINIM O	-0.12
10.70	MAXIMUM	4.21	9.3	MINITIXAM 0	3.66
	VARIATION			F VARIATION	
SYMMETRY	VETA I	0.05	SYMMETRY	VETA I	0.16
KURTOSIS	VETA IT	2.95	KURIOSIS	VETA II	3.37
NUMBER OF	SUBJECTS	334	NUMBER O	F SUBJECTS	487
-					_
	PERCENTILES			PERCENTILE	
CENTIMETE	4S	INCHES	CENTIME	TERS	INCHES
1.65	1ST	0.65	1.79		
2.06	2ND	0.81	2.09	9 2ND	0.82
2.32	3RD	0.91	2.29	9 3RD	0.90
2.68	5TH	1.06	2.5	5 5TH	1.00
3.25	10TH	1.28	2.9	5 10TH	1.16
3.63	15TH	1.43	3.2	3 15TH	1.27
3.94	20TH	1.55	3.4	6 20TH	
4.20	25TH	1.65	3.6		
4.44	301H	1.75	3.8		
4.66	35TH	1.83	4.0		
4.86	40TH	1.91	4.1		
5.06	45TH	1.99	4.3		
5.26	50TH	2.07	4.4		
5.46	55TH	2.15	4.6		
5.46					
	60TH	2.23	4.78		
5.87	65TH	2.31	4.9		
6.09	70TH	2.40	5.1		
6.33	75TH	2.49	5.3		
<b>6.</b> 59	HT08	2.59	5.5		
6.89	85TH	2.71	5.8	0 85TH	2.28
7.27	90TH	2.86	6.13		
7.83	95TH	3.08	6.6	95TH	2.60
8.19	97TH	3.22	6.9	1 97TH	2.72
8.45	98TH	3.33	7.1		
8.85	99TH	3.48		7 99TH	

## (D2) ACROMICN-AXIIIA LENGIH

The vertical distance between the acromion landmark on the tip of the right shoulder and the anterior-scye-on-the-torso landmark of a subject standing erect with the arms relaxed at the sides is calculated as follows: ACROMFAL HEIGHT minus AXILIA HEIGHT.



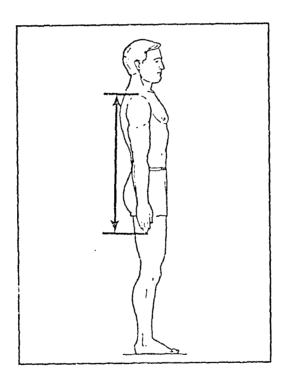
## VARIABLE NO. (D2) -- ACROMION-AXILIA LENGIH

## FEMALES

THE SUM CENTIMETED	MARY STATI RS	STICS INCHES	THE SUMMARY STATE CENTIMETERS	STICS INCHES
0.05	MEAN SE (MEAN) ST DEV SE (SD)	0.02	12.24 MEAN 0.04 SE(MEAN) 0.94 ST DEV 0.03 SE(SD)	0.02
	MUNIMUM MUNIKAM	3.11 5.08	9.50 MINIMUM 15.40 MAXIMUM	
COEFF. OF SYMMETRY KURIOSIS NUMBER OF S	VETA I VETA II	0.11 3.18	COEFF. OF VARIATION SYMMETRY—VETA I KURICSIS—VETA II NUMBER OF SUBJECTS	0.16 2.98
PI CENTIMETE	ERCENTILES RS	INCHES	PERCENTII EX CENTIMETERS	; INCHES
8.23 8.56 8.76 9.00 9.33 9.54 9.70 9.83 9.95 10.07 10.17 10.28 10.38 10.49 10.60 10.71 10.84 10.98 11.14 11.33 11.58	2ND 3RD 5TH 10TH 15TH 20TH 25TH 30TH 40TH 45TH 50TH 55TH 60TH 65TH 75TH 80TH	3.24 3.37 3.45 3.54 3.67 3.76 3.82 3.87 3.92 3.96 4.00 4.05 4.09 4.13 4.17 4.22 4.27 4.32 4.39 4.46 4.56	10.19 1ST 10.40 2ND 10.53 3RD 10.72 5TH 11.03 10TH 11.25 15TH 11.42 20TH 11.57 25TH 11.71 30TH 11.84 35TH 11.97 40TH 12.09 45TH 12.21 50TH 12.33 55TH 12.45 60TH 12.33 55TH 12.45 60TH 12.58 65TH 12.72 70TH 12.87 75TH 13.04 80TH 13.23 85TH 13.48 90TH	4.09 4.15 4.22 4.34 4.43 4.50 4.56 4.61 4.66 4.71 4.85 4.90 4.95 5.01 5.07 5.13
11.96 12.22 12.41 12.71	95TH 97TH 98TH	4.71 4.81 4.89 5.00	13.44 95TH 13.84 95TH 14.08 97TH 14.25 98TH 14.52 99TH	5.45 5.54 5.61

### (D3) ARM LENGIH

The vertical distance between the acromion landmark on the tip of the right shoulder and the tip of the middle finger of a subject standing erect with the arms straight at the sides is calculated as follows: ACROMIAL HEIGHT minus WRIST HEIGHT plus HAND LENGTH.



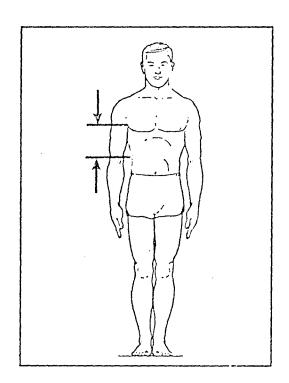
## VARIABLE NO. (D3)—ARM LENGTH

## FEMALES

<del></del>			<del></del>		
THE SUM	MARY STATI	STICS	THE SU	MMARY STATI	STICS
CENTIMETE	RS	INCHES	CENTIMET	ers	INCHES
73.98	MEAN	29.13	79.20	MEAN	31.18
0.13		0.05	0.16		0.06
2.45	ST DEV	0.96	3.62		1.43
0.09	SE (SD)	0.96	0.12		0.05
0.09	ಎ೬(ಎಲ)	0.04	0.12	ತಿ೬(ವಿರ)	0.05
	MINIMUM			MUNIMUM	
84.40	MINIXAM	33.23	89.30	MAXUMUM	35.16
COEFF. OF V	VARIATION	3.3%	COEFF. OF	VARIATION	4.6%
SYMMETRY-		0.82		VETA I	
KURIOSIS-		4.11		VETA II	
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
<del></del>		<del></del>	**************************************		
PI	ERCENTILES	3	1	PERCENTILES	5
CENTIMETER	RS	INCHES	CENTIMET	ERS	INCHES
69.71	1ST	27.45	71.72		
70.04	SND	27.57	72.39	2ND	28.50
70.26	3RD	27.66	72.84		
70.57	5TH	27.79	73.49		28.93
71.12	10TH	28.00	74.56	10TH	29.36
71.53	101H 15TH	28.16	75.34		29.66
71.88	20TH	28.30	75.99	20TH	29.92
72.20	25TH	28.42	76.57	25TH	30.15
72.50	30TH		77.10		
72.79	35TH	28.66	77.61		
73.09	40TH	28.77	78.09		
73.38	45TH	28.89	78.57		
73.58 73.68	50TH		78.57 79.06		
	SOTU	20.12			
73.99	55TH		79.54		
74.31	60TH	29.26	80.04		
74.65	65TH	29.39	80.56		
75.03	70TH	29.54	81.11		
75.44	75'IH	29.70	81.71		
75.93	80TH	29.89	82.38		
76.50	85TH	30.12	83.14	85TH	
77.25	90TH	30.41	84.09		
78.39	95TH	30.86	85.44	95TH	33.64
79.15	97TH	31.16	86.25		33.96
79.71	98TH	31.38	86.81		
80.59	99TH	31.73	87.61		

# (D4) AXIIIA-WAIST LENGTH (NATURAL INLEMENTEN)

The vertical distance between the right anterior-scye-on-the-torso landmark and the level of the waist at its natural indentation is calculated as follows: AXILLA HEIGHT minus WAIST HEIGHT (NATURAL INDENTATION).



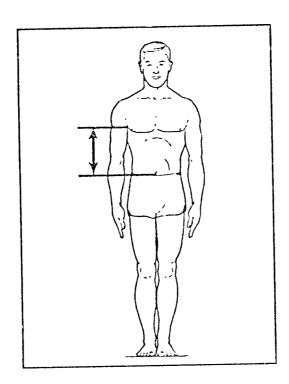
# VARIABLE NO. (D4) -- AXILLA-WALST LENGTH (NATURAL INDENTATION)

## FEMALES

THE SUM	MARY STATI	STICS	THE SUMMARY STAT	TSTTCS
CENTIMETE	RS	INCHES	CENTIMETERS	INCHES
18.56	MEAN	7.31	20.08 MEAN	7.90
0.12	MEAN SE (MEAN)	0.05	0.08 SE(MEAN)	
2.15	SÌ DEV	0.85	1.83 ST DEV	
0.08	SE(SD)	0.03	0.06 SE(SD)	
	()	• • • • •	0.00 05(05)	0.02
13.70	MINIMUM	5.39	14.40 MINIMUM	5.67
	MAXIMUM		25.00 MAXIMUM	
COEFF. OF		11.6%	COEFF. OF VARIATION	9.1%
SYMMETRY-	VEIA I	0.45	SYMMETRYVETA I	0.10
KURTOSIS	VETA II	3.35	KURTOSISVETA II	
				_,_,
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS	487
P	ERCENTILES	;	PERCENTILE	S
CENTIMETE	RS	INCHES	CENTIMETERS	INCHES
14.24	1ST	5.61	16.08 1ST	6.33
14.65	2ND	5.77	16.49 2ND	
14.93	3RD	5.88	<b>16.76</b> 3RD	6.60
15.33	STH	6.03	17.13 5TH	
15.97	10TH	6.29	17.73 10TH	
16.41	15TH	6.46	18.15 15TH	7.15
16.77	20TH	6.60	18.49 20TH	
17.09	25TH	6.73	18.79 25TH	
17.38	30TH	6.84	19.06 30TH	
17.65	35TH	6.95	19.31 35TH	
17.91	40TH	7.05	19.56 40TH	
18.16	45TH	7.15	19.79 45TH	
18.42	50TH	7.25	20.03 50TH	
18.67	55TH	7.35	20.27 55TH	
18.94	60TH	7.46	20.52 60TH	
19.22	65TH	7.57	* 20.77 65114	
19.53	70TH	7.69	21.04 7014	
19.87	75TH	7.82	21.33 75TH	
20.26	HTO8	7.98	21.66 80TH	
20.74	85TH	8.16	22.04 85TH	
21.38	90TH	8.42	22.52 90TH	
22.42	95TH	8.83	23.22 95TH	
23.17	97TH	9.12	23.22 951H 23.67 97TH	9.14
23.77	98TH	9.36	23.67 971H 24.00 98TH	9.32
24.79	99TH	9.76		
44.13	<b>ラブエロ</b>	7.10	24.50 99TH	9.65

# (D5) AXILIA-WALST LEMEN (COMPALICE)

The vertical distance between the anterior-scye-on-the-torso landmark and the level of the waist at the navel (caphalicn) is calculated as follows: AXILIA HEIGHT minus WAIST HEIGHT (CHHALICH).



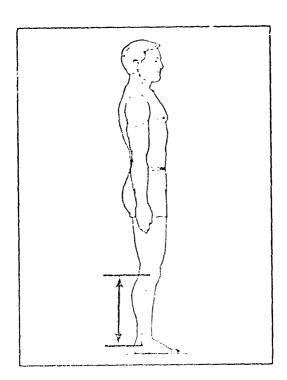
# VARIABLE NO. (05) -AXILLA-WALST LENGTH (CATHALLICH)

## FEMALES

26.05   MEAN   10.25   26.72   MEAN   10.52	THE SUMM CENITMETER		ISTICS INCHES	THE SUPCEMENTED	Mary Stati PS	STICS INCHES
O.10 SE(MEAN)   O.04   O.09 SE(MEAN)   O.04     1.83 ST DEV   O.72   2.04 ST DEV   O.80     O.07 SE(SD)   O.03   O.07 SE(SD)   O.03     20.10 MINIMUM   7.91   21.00 MINIMUM   8.27     32.90 MAXIMUM   12.95   32.90 MAXIMUM   12.95     COEFF. OF VARIATION   7.0%   COEFF. OF VARIATION   7.6%     SYMMETRY	26.05	MEAN	10.25	26.72	MEAN	10.52
COLUMNITY   COLU	0.10	SE (MEAN)	0.04	0.09	SE (MEAN)	0.04
COLUMNITY   COLU	1.83	ST DEV	0.72	2.04	ST DEV	0.80
20.10 MINIMUM   7.91   21.00 MINIMUM   8.27   32.90 MAXIMUM   12.95   32.90 MAXIMUM   12.95						
COEFF. OF VARIATION 7.0%   COEFF. OF VARIATION 7.6%   SYMMETRY—VETA I 0.14   SYMMETRY—VETA I 0.14   KURICSIS—VETA II 3.23   KURICSIS—VETA II 2.86	0.07	015(00)	0.03	0.07	DI3(DD)	0.03
COEFF. OF VARIATION 7.0%   COEFF. OF VARIATION 7.6%   SYMMETRY—VETA I 0.14   SYMMETRY—VETA I 0.14   KURICSIS—VETA II 3.23   KURICSIS—VETA II 2.86	20.10	MUMINIM	7.91	21.00	MINIMUM	8.27
NUMBER OF SUBJECTS   334   NUMBER OF SUBJECTS   487						
NUMBER OF SUBJECTS   334   NUMBER OF SUBJECTS   487						
NUMBER OF SUBJECTS   334   NUMBER OF SUBJECTS   487	COEFF. OF V	ARIATION	7.0₹	COEFF. OF	VARIATION	7.6%
NUMBER OF SUBJECTS   334   NUMBER OF SUBJECTS   487						
PERCENTILES   INCIES   CENTIMETERS   INCIES	KURIOSIS	-VETA II	3.23	KURIOSIS—	-VETA II	2.86
21.90       1ST       8.62       22.06       1ST       8.68         22.39       2ND       8.81       22.63       2ND       8.91         22.69       3RD       8.93       22.98       3RD       9.05         23.10       5TH       9.10       23.45       5TH       9.23         23.74       10TH       9.35       24.15       10TH       9.51         24.17       15TH       9.51       24.62       15TH       9.69         24.50       20TH       9.65       24.99       20TH       9.84         24.80       25TH       9.76       25.31       25TH       9.97         25.06       30TH       9.87       25.61       30TH       10.08         25.31       35TH       9.96       25.88       35TH       10.19         25.55       40TH       10.06       26.14       40TH       10.29         25.77       45TH       10.15       26.40       45TH       10.39         26.00       50TH       10.24       26.66       50TH       10.42         26.23       55TH       10.33       26.92       55TH       10.60         26.46       60TH <t< td=""><td>NUMBER OF S</td><td>UBJECTS</td><td>334</td><td>NUMBER OF</td><td>SULLECTS</td><td>487</td></t<>	NUMBER OF S	UBJECTS	334	NUMBER OF	SULLECTS	487
21.90       1ST       8.62       22.06       1ST       8.68         22.39       2ND       8.81       22.63       2ND       8.91         22.69       3RD       8.93       22.98       3RD       9.05         23.10       5TH       9.10       23.45       5TH       9.23         23.74       10TH       9.35       24.15       10TH       9.51         24.17       15TH       9.51       24.62       15TH       9.69         24.50       20TH       9.65       24.99       20TH       9.84         24.80       25TH       9.76       25.31       25TH       9.97         25.06       30TH       9.87       25.61       30TH       10.08         25.31       35TH       9.96       25.88       35TH       10.19         25.55       40TH       10.06       26.14       40TH       10.29         25.77       45TH       10.15       26.40       45TH       10.39         26.00       50TH       10.24       26.66       50TH       10.42         26.23       55TH       10.33       26.92       55TH       10.60         26.46       60TH <t< td=""><td></td><td></td><td>5</td><td>F</td><td>FRCENTILES</td><td>(</td></t<>			5	F	FRCENTILES	(
22.39       2ND       8.81       22.63       2ND       8.91         22.69       3RD       8.93       22.98       3RD       9.05         23.10       5TH       9.10       23.45       5TH       9.23         23.74       10TH       9.35       24.15       10TH       9.51         24.17       15TH       9.51       24.62       15TH       9.69         24.50       20TH       9.65       24.99       20TH       9.34         24.80       25TH       9.76       25.31       25TH       9.97         25.06       30TH       9.87       25.61       30TH       10.08         25.31       35TH       9.96       25.88       35TH       10.19         25.55       40TH       10.06       26.14       40TH       10.29         25.77       45TH       10.15       26.40       45TH       10.39         26.00       50TH       10.24       26.66       50TH       10.42         26.23       55TH       10.33       26.92       55TH       10.60         26.46       60TH       10.42       27.18       60TH       10.70         26.70       65TH	CENTIMETER	5	INCHES	CENTIMETE	RS	INCHES
22.39       2ND       8.81       22.63       2ND       8.91         22.69       3RD       8.93       22.98       3RD       9.05         23.10       5TH       9.10       23.45       5TH       9.23         23.74       10TH       9.35       24.15       10TH       9.51         24.17       15TH       9.51       24.62       15TH       9.69         24.50       20TH       9.65       24.99       20TH       9.34         24.80       25TH       9.76       25.31       25TH       9.97         25.06       30TH       9.87       25.61       30TH       10.08         25.31       35TH       9.96       25.88       35TH       10.19         25.55       40TH       10.06       26.14       40TH       10.29         25.77       45TH       10.15       26.40       45TH       10.39         26.00       50TH       10.24       26.66       50TH       10.42         26.23       55TH       10.33       26.92       55TH       10.60         26.46       60TH       10.42       27.18       60TH       10.70         26.70       65TH	21,90	1ST	8,62	22.06	151	8.68
22.69       3RD       8.93       22.98       3RD       9.05         23.10       5TH       9.10       23.45       5TH       9.23         23.74       10TH       9.35       24.15       10TH       9.51         24.17       15TH       9.51       24.62       15TH       9.69         24.50       20TH       9.65       24.99       20TH       9.84         24.80       25TH       9.76       25.31       25TH       9.97         25.06       30TH       9.87       25.61       30TH       10.08         25.31       35TH       9.96       25.88       35TH       10.19         25.55       40TH       10.06       26.14       40TH       10.29         25.77       45TH       10.15       26.40       45TH       10.39         26.00       50TH       10.24       26.66       50TH       10.40         26.23       55TH       10.33       26.92       55TH       10.60         26.46       60TH       10.42       27.18       60TH       10.70         26.70       65TH       10.51       27.46       65TH       10.93         27.24       75TH	22.39	SND	8.81	22.63	2ND	8.91
23.10       5TH       9.10       23.45       5TH       9.23         23.74       10TH       9.35       24.15       10TH       9.51         24.17       15TH       9.51       24.62       15TH       9.69         24.50       20TH       9.65       24.99       20TH       9.34         24.80       25TH       9.76       25.31       25TH       9.97         25.06       30TH       9.87       25.61       30TH       10.08         25.31       35TH       9.96       25.88       35TH       10.19         25.55       40TH       10.06       26.14       40TH       10.29         25.77       45TH       10.15       26.40       45TH       10.39         26.00       50TH       10.24       26.66       50TH       10.42         26.23       55TH       10.33       26.92       55TH       10.60         26.46       60TH       10.42       27.18       60TH       10.70         26.70       65TH       10.51       27.46       65TH       10.81         26.96       70TH       10.61       27.75       70TH       10.93         27.24       75TH </td <td></td> <td>3180</td> <td>8.93</td> <td>22.98</td> <td>380</td> <td>9.05</td>		3180	8.93	22.98	380	9.05
24.17       15TH       9.51       24.62       15TH       9.69         24.50       20TH       9.65       24.99       20TH       9.84         24.80       25TH       9.76       25.31       25TH       9.97         25.06       30TH       9.87       25.61       30TH       10.08         25.31       35TH       9.96       25.88       35TH       10.19         25.55       40TH       10.06       26.14       40TH       10.29         25.77       45TH       10.15       26.40       45TH       10.39         26.00       50TH       10.24       26.66       50TH       10.42         26.23       55TH       10.33       26.92       55TH       10.60         26.46       60TH       10.42       27.18       60TH       10.70         26.70       65TH       10.51       27.46       65TH       10.81         26.96       70TH       10.61       27.75       70TH       10.93         27.24       75TH       10.72       28.08       75TH       11.05         27.91       85TH       10.99       28.86       85TH       11.36         28.37				23 45		
24.17       15TH       9.51       24.62       15TH       9.69         24.50       20TH       9.65       24.99       20TH       9.84         24.80       25TH       9.76       25.31       25TH       9.97         25.06       30TH       9.87       25.61       30TH       10.08         25.31       35TH       9.96       25.88       35TH       10.19         25.55       40TH       10.06       26.14       40TH       10.29         25.77       45TH       10.15       26.40       45TH       10.39         26.00       50TH       10.24       26.66       50TH       10.42         26.23       55TH       10.33       26.92       55TH       10.60         26.46       60TH       10.42       27.18       60TH       10.70         26.70       65TH       10.51       27.46       65TH       10.81         26.96       70TH       10.61       27.75       70TH       10.93         27.24       75TH       10.72       28.08       75TH       11.05         27.91       85TH       10.99       28.86       85TH       11.36         28.37	23.74	1019	9.35	24.15	10011	9.51
24.50       20TH       9.65       24.99       20TH       9.84         24.80       25TH       9.76       25.31       25TH       9.97         25.06       30TH       9.87       25.61       30TH       10.08         25.31       35TH       9.96       25.88       35TH       10.19         25.55       40TH       10.06       26.14       40TH       10.29         25.77       45TH       10.15       26.40       45TH       10.39         26.00       50TH       10.24       26.66       50TH       10.42         26.23       55TH       10.33       26.92       55TH       10.60         26.46       60TH       10.42       27.18       60TH       10.70         26.70       65TH       10.51       27.46       65TH       10.81         26.96       70TH       10.61       27.75       70TH       10.93         27.24       75TH       10.72       28.08       75TH       11.05         27.91       85TH       10.99       28.86       85TH       11.36         28.37       90TH       11.43       30.18       95TH       11.88         29.48 <t< td=""><td></td><td></td><td></td><td></td><td>15/79/</td><td>9.69</td></t<>					15/79/	9.69
25.06       30TH       9.87       25.61       30TH       10.08         25.31       35TH       9.96       25.88       35TH       10.19         25.55       40TH       10.06       26.14       40TH       10.29         25.77       45TH       10.15       26.40       45TH       10.39         26.00       50TH       10.24       26.66       50TH       10.49         26.23       55TH       10.33       26.92       55TH       10.60         26.46       60TH       10.42       27.18       60TH       10.70         26.70       65TH       10.51       27.46       65TH       10.81         26.96       70TH       10.61       27.75       70TH       10.93         27.24       75TH       10.72       28.08       75TH       11.05         27.55       80TH       10.85       28.44       80TH       11.36         28.37       90TH       11.17       29.40       90TH       11.57         29.04       95TH       11.43       30.18       95TH       11.88         29.48       97TH       11.61       30.68       97TH       12.03         29.79	24.50	20114	0.65			
25.06       30TH       9.87       25.61       30TH       10.08         25.31       35TH       9.96       25.88       35TH       10.19         25.55       40TH       10.06       26.14       40TH       10.29         25.77       45TH       10.15       26.40       45TH       10.39         26.00       50TH       10.24       26.66       50TH       10.49         26.23       55TH       10.33       26.92       55TH       10.60         26.46       60TH       10.42       27.18       60TH       10.70         26.70       65TH       10.51       27.46       65TH       10.81         26.96       70TH       10.61       27.75       70TH       10.93         27.24       75TH       10.72       28.08       75TH       11.05         27.55       80TH       10.85       28.44       80TH       11.36         28.37       90TH       11.17       29.40       90TH       11.57         29.04       95TH       11.43       30.18       95TH       11.88         29.48       97TH       11.61       30.68       97TH       12.03         29.79	24.50	20111	0.76	25.21	2033	9.04
25.55       40TH       10.06       26.14       40TH       10.29         25.77       45TH       10.15       26.40       45TH       10.39         26.00       50TH       10.24       26.66       50TH       10.49         26.23       55TH       10.33       26.92       55TH       10.60         26.46       60TH       10.42       27.18       60TH       10.70         26.70       65TH       10.51       27.46       65TH       10.81         26.96       70TH       10.61       27.75       70TH       10.93         27.24       75TH       19.72       28.08       75TH       11.05         27.55       80TH       10.85       28.44       80TH       11.20         27.91       85TH       10.99       28.86       85TH       11.36         28.37       90TH       11.17       29.40       90TH       11.57         29.04       95TH       11.43       30.18       95TH       11.88         29.48       97TH       11.61       30.68       97TH       12.03         29.79       98TH       11.73       31.04       98TH       12.22	24.00	20111	2.70	20.31	20111	9.97
25.55       40TH       10.06       26.14       40TH       10.29         25.77       45TH       10.15       26.40       45TH       10.39         26.00       50TH       10.24       26.66       50TH       10.49         26.23       55TH       10.33       26.92       55TH       10.60         26.46       60TH       10.42       27.18       60TH       10.70         26.70       65TH       10.51       27.46       65TH       10.81         26.96       70TH       10.61       27.75       70TH       10.93         27.24       75TH       19.72       28.08       75TH       11.05         27.55       80TH       10.85       28.44       80TH       11.20         27.91       85TH       10.99       28.86       85TH       11.36         28.37       90TH       11.17       29.40       90TH       11.57         29.04       95TH       11.43       30.18       95TH       11.88         29.48       97TH       11.61       30.68       97TH       12.03         29.79       98TH       11.73       31.04       98TH       12.22	25.00	20111	0.00	20.02	3011	10.08
25.77       45TH       10.15       26.40       45TH       10.39         26.00       50TH       10.24       26.66       50TH       10.49         26.23       55TH       10.33       26.92       55TH       10.60         26.46       60TH       10.42       27.18       60TH       10.70         26.70       65TH       10.51       27.46       65TH       10.81         26.96       70TH       10.61       27.75       70TH       10.93         27.24       75TH       10.72       28.08       75TH       11.05         27.55       80TH       10.85       28.44       80TH       11.20         27.91       85TH       10.99       28.86       85TH       11.36         28.37       90TH       11.17       29.40       90TH       11.57         29.04       95TH       11.43       30.18       95TH       11.88         29.48       97TH       11.61       30.68       97TH       12.03         29.79       98TH       11.73       31.04       98TH       12.22	20.31	33111	2,30	25.88	30111	10.19
26.23       55TH       10.33       26.92       55TH       10.60         26.46       60TH       10.42       27.18       60TH       10.70         26.70       65TH       10.51       27.46       65TH       10.81         26.96       70TH       10.61       27.75       70TH       10.93         27.24       75TH       19.72       28.08       75TH       11.05         27.55       80TH       10.85       28.44       80TH       11.20         27.91       85TH       10.99       28.86       85TH       11.36         28.37       90TH       11.17       29.40       90TH       11.57         29.04       95TH       11.43       30.18       95TH       11.88         29.48       97TH       11.61       30.68       97TH       12.03         29.79       98TH       11.73       31.04       98TH       12.22						
26.23       55TH       10.33       26.92       55TH       10.60         26.46       60TH       10.42       27.18       60TH       10.70         26.70       65TH       10.51       27.46       65TH       10.81         26.96       70TH       10.61       27.75       70TH       10.93         27.24       75TH       19.72       28.08       75TH       11.05         27.55       80TH       10.85       28.44       80TH       11.20         27.91       85TH       10.99       28.86       85TH       11.36         28.37       90TH       11.17       29.40       90TH       11.57         29.04       95TH       11.43       30.18       95TH       11.88         29.48       97TH       11.61       30.68       97TH       12.03         29.79       98TH       11.73       31.04       98TH       12.22	25.77	45111	10.15	26.40	45111	10.39
26.46       60TH       10.42       27.18       60TH       10.70         26.70       65TH       10.51       27.46       65TH       10.81         26.96       70TH       10.61       27.75       70TH       10.93         27.24       75TH       10.72       28.08       75TH       11.05         27.55       80TH       10.85       28.44       80TH       11.20         27.91       85TH       10.99       28.86       85TH       11.36         28.37       90TH       11.17       29.40       90TH       11.57         29.04       95TH       11.43       30.18       95TH       11.88         29.48       97TH       11.61       30.68       97TH       12.03         29.79       98TH       11.73       31.04       98TH       12.22	26.00	50111	10.24	26.66		
26.70       65TH       10.51       27.46       65TH       10.81         26.96       70TH       10.61       27.75       70TH       10.93         27.24       75TH       10.72       28.08       75TH       11.05         27.55       80TH       10.85       28.44       80TH       11.20         27.91       85TH       10.99       28.86       85TH       11.36         28.37       90TH       11.17       29.40       90TH       11.57         29.04       95TH       11.43       30.18       95TH       11.88         29.48       97TH       11.61       30.68       97TH       12.08         29.79       98TH       11.73       31.04       98TH       12.22	26.23	557H	10.33		55TH	10.60
26.96       70TH       10.61       27.75       70TH       10.93         27.24       75TH       10.72       28.08       75TH       11.05         27.55       80TH       10.85       28.44       80TH       11.20         27.91       85TH       10.99       28.86       85TH       11.36         28.37       90TH       11.17       29.40       90TH       11.57         29.04       95TH       11.43       30.18       95TH       11.88         29.48       97TH       11.61       30.68       97TH       12.03         29.79       98TH       11.73       31.04       98TH       12.22		601H	10.42	27.18	601H	10.70
27.24       75TH       10.72       28.08       75TH       11.05         27.55       80TH       10.85       28.44       80TH       11.20         27.91       85TH       10.99       28.86       85TH       11.36         28.37       90TH       11.17       29.40       90TH       11.57         29.04       95TH       11.43       30.18       95TH       11.88         29.48       97TH       11.61       30.68       97TH       12.03         29.79       98TH       11.73       31.04       98TH       12.22				27.46		
27.55     80TH     10.85     28.44     80TH     11.20       27.91     85TH     10.99     28.86     85TH     11.36       28.37     90TH     11.17     29.40     90TH     11.57       29.04     95TH     11.43     30.18     95TH     11.88       29.48     97TH     11.61     30.68     97TH     12.08       29.79     98TH     11.73     31.04     98TH     12.22		YOTH	10.61	<b>27.</b> 75	701H	10.93
27.91     85TM     10.99     28.86     85TM     11.36       28.37     90TH     11.17     29.40     90TH     11.57       29.04     95TH     11.43     30.18     95TH     11.88       29.48     97TH     11.61     30.68     97TH     12.08       29.79     98TH     11.73     31.04     98TH     12.22	27.24	75TH	10.72	28.08	75TH	11.05
27.91     85TM     10.99     28.86     85TM     11.36       28.37     90TH     11.17     29.40     90TH     11.57       29.04     95TH     11.43     30.18     95TH     11.88       29.48     97TH     11.61     30.68     97TH     12.08       29.79     98TH     11.73     31.04     98TH     12.22	27.55	HIOS	10.85			
29.04     95TH     11.43     30.18     95TH     11.88       29.48     97TH     11.61     30.68     97TH     12.08       29.79     98TH     11.73     31.04     98TH     12.22						
29.04     95TH     11.43     30.18     95TH     11.88       29.48     97TH     11.61     30.68     97TH     12.08       29.79     98TH     11.73     31.04     98TH     12.22	28.37	901H	11.17	29.40	901H	11.57
29.79 98TH 11.73 31.04 98TH 12.22	29.04	95TH	11.43	30.18	95TH	11.88
29.79 98TH 11.73 31.04 98TH 12.22	29.48	97'111	11.61	30.73	97111	12.03
	29.79	98'114	11.73	31.04	98711	12.22

#### (D6) CALF LINK

The vertical distance between the lateral femoral epicondyle landmark on the side of the right knee and the lateral mulleolus landmark on the outside of the right ankle is calculated as follows: IATERAL FEMORAL EPICONDYLE HEIGHT minus LATERAL MALLFOLUS HEIGHT.



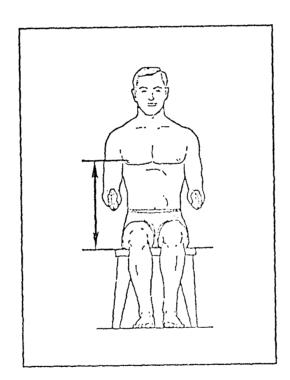
# VARIABLE NO. (D6) — CALF LINK

## FEMALES

पासर जास	MARY STAT	remos		
			THE SUMPARY STAT	ISTICS
CENTIMETE	10	INCHES	CENTUMETERS	INCHES
40.94	MEAN	16.12	43.50 MEAN	17.13
0.08	SE (MEAN)	0.03	0.10 SE (MEAN)	
	ST DEV	0.59		
1.01	OT DEV	0.59	2.22 ST DEV	
0.06	SE(SD)	0.02	0.07 SE(SD)	0.03
37.00	MUNIMUM		38.30 MINIMUM	15.08
46.40	MUMIXAM	18.27	49.70 MAXIMUM	
				23.37
COEFF. OF	VARIATTON	3.7%	COEFF. OF VARIATION	E 10
SYMMETRY				
KURTOSIS-				0.19
IUNIOIS	AETW IT	3.60	KURTOSISVETA II	2.66
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS	487
p	ERCENTILES	;	PERCENITIE	-
CENTIMETE		INCHES		_
C-4411 XX 11.7 L		manne	CENTIMETERS	INCHES
27 00	1 cm	14.00		
37.89	1st		38.96 1ST	15.34
38.21	SND	15.04	39.31 2ND	15.48
38.41	3RD	15.12	39.57 3RD	15.58
38.69	5TH	15.23	39.96 5TH	
39.13	1011	15.41	40.62 10TH	
39.43	15TH	15.52		
39.68	201H	15.62		
			41.52 20TH	16.35
39.89	25TH	15.70	41.88 25TH	16.49
40.09	301.4	15.78	42.21 30TH	16.62
40.27	35TH	15.85	42.52 35TH	16.74
40.45	40TH	15.92	42.82 40TH	
40.62	45TH	15.99	43.12 45111	
40.80	50TH	16.06		16.98
40.98	55TH		43.41 50TH	17.09
		16.13	43.71 55TH	17.21
41.17	60111	16.21	44.01 60TH	<b>17.</b> 33
41.37	65TH	16.29	44.32 65TH	17.45
41.58	701H	16.37	44.66 70TH	17.58
41.83	75TH	16,47	45.01 75TH	17.72
42.11	HT08	16.58		
42.45	85TH	16.71		17.88
			45.88 85TH	18.06
42.91	90111	16.89	46.45 901H	18.29
43.65	95TH	17.19	47.29 95TH	18.62
44.18	97TH	17.39	47.82 97TH	13.83
44.59	HT80	17.56	48.19 9871	13.97
45.29	991H	17.83		
		J. F. & C. J.	48.77 99M	19.20

## (D7) CHEST HEIGHT, SITTING

The vertical distance between a sitting surface and the right nipple on men or the right bustpoint on women, sitting erect, is calculated as follows: SITTING HEIGHT minus (STATURE minus CHEST HEIGHT).



# VARIABLE NO. (D7) — CHEST HEIGHT, SITTING

FEMALES

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गधन दार	Mary Stat:	remice	
			THE SUMMARY STATISTICS
CENTIMETE	165 165	INCHES	CENTIMETERS INCHES
46.93		18.48	48.87 MEAN 19.24
0.12	SE (MEAN)	0.05	0.10 SE(MEAN) 0.04
2.16	ST DEV	0.85	2.19 ST DEV 0.86
0.08	SE(SD)	0.03	0.07 SE(SD) 0.03
41.40	MINIMUM	16.30	41.70 MINIMUM 16.42
	MAXIMUM	20.91	
03.20	14 MELLIOIT	20.51	55.50 MAXIMUM 21.85
COEFF. OF			COEFF. OF VARIATION 4.5%
SYMMETRY		0.06	SYMMETRY——VETA I -0.04
KURIOSIS-	VETA II	2.86	KURTOSIS—VETA II 3.08
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS 487
	E2024 W.W. W. E1112 T. Y. Y.	•	
	ERCENTILES		PERCENITLES
CENTIMETE	RS .	INCHES	CENTIMETERS INCHES
41.90	1ST	16.49	43.45 1ST 17.11
42.51	2ND	16.74	44.22 2ND 17.41
42.89	3RD	16.88	44.67 3RD 17.59
43.39	5TH	17.08	45.25 5TH 17.81
44.16	1011	17.38	46.09 10TH 18.14
44.67	15TH	17.59	46.62 15TH 18.36
45.08	201H	17.75	
45.43	25TH	17.89	47.04 20TH 18.52 47.40 25TH 18.66 47.72 30TH 18.70
45.75	30TH	18.01	47.40 25TH 18.66
46.05			47.72 30111 10.79
	35TH	18.13	48.02 35TH 18.90
46.33	40TH	18.24	48.30 40TH 19.02
46.61	45TH	18.35	48.57 45TH 19.12
46.89	50TH	18.46	48.85 50TH 19.23
47.16	55 TH	18.57	49.12 55TH 19.34
47.45	60TH	18.68	49.40 60TH 19.45
47.74	65TH	18.80	49.69 65TH 19.56
48.05	70TH	18.92	50.00 70TH 19.68
48.39	75TH	19.05	
48.77	80TH	19.20	
49.21	8574	19.38	
49.77	90TH	19.60	
			51.69 90TH 20.35
50.59	95TH	19.92	52.47 95TH 20.66
51.12	97TH	20.12	52.95 97TH 20.84
51.49	981H	20.27	53.28 98TH 20.98
52.06	9 9TH	20.49	53.75 99TH 21.16

(D8) CHEST-WAIST CROP (NATURAL INDENIATION)

The difference between the circumference of the chest and the circumference of the waist at the level of its natural indentation is calculated as follows: CHEST CIRCUMFERENCE minus WAIST CIRCUMFERENCE (NATURAL INDENTATION).

VARIABLE NO. (D8)—CHEST-WAIST DROP, NATURAL INDENIATION FEMALES MALES

THE SUM	MARY STATI	STICS	THE SUMMARY	STATISTICS
CENTIMETE	RS	INCHES	CENTIMETERS	INCHES
	MEAN			EAN 6.02
	SE (MEAN)	0.07	0.16 SE	
3.42	ST DEV	1.34	3.51 SI	
0.13	SE (SD)	0.05	0.11 SF	E(SD) 0.04
9.60	MONTHARM	2 20	3.00 MIN	IIMUM 1.18
	MINIMUM		29.70 MAX	
31.00	MAXIMUM	12.20	29.70 PP2	LINON II.09
COEFF. OF	VARIATION	18.6%	COEFF. OF VARI	ATION 23.0%
SYMMETRY-	VETA I	0.03	SYMMETRYVE	TA I 0.15
KURIOSIS-	VETA II	3.34	KURTOSISVI	
NUMBER OF	SUBJECTS	334	NUMBER OF SUB	TECTS 487
יכן: יכן:	ERCENTILES	.	PERCE	ENTILES
CENTIMETE		INCHES	CENTIMETERS	INCHES
10.18	1ST	4.01	7.14	1ST 2.81
11.10	2ND	4.37	8.20	2ND 3.23
11.72	3RD	4.61	8.84	3RD 3.48
12.57	5TH	4.95	9.68	5TH 3.81
13.89	10TH	5.47	10.93	10TH 4.30
14.79	15TH	5.82	11.75	15TH 4.63
15.48	20TH	6.10	12.39	20TH 4.88
16.08	25TH	6.33	12.95	25TH 5.10
16.61	30TH	6.54	13.44	30TH 5.29
17.09	35TH	6.73	13.90	35TH 5.47
17.54	40TH	6.90	14.34	40TH 5.64
17.97	45TH	7.07	14.75	45TH 5.81
18.39	50TH	7.24	15.19	50TH 5.98
18.80	55TH	7.40	15.61	55TH 6.15
19.22	60TH	7.57	16.05	60TH 6.32
19.65	65TH	7.74	16.51	65TH 6.50
20.10	70TH	7.91	17.00	70TH 6.59
20.59	75TH	8.10	17.54	75TH 6.90
21.13	80TH	8.32	18.15	80TH 7.15
21.76	85 IH	8.57	18.87	85TH 7.43
22.58	901H	8.89	19.81	9JIH 7.80
23.85	95TH	9.39	21.26	95TH 8.37
24.74	97TH	9.74	22.23	97IH 8.75
25.43	98TH	10.01	22.97	98TH 9.04
26.61	99TH	10.48	24.15	99TH 9.51

(D9) CHEST-WAIST LROP (CHHALICH)

The difference between the circumference of the chest and the circumference of the waist at the level of the navel (omphalion) is calculated as follows: CHEST CIRCUMFERENCE minus WAIST CIRCUMFERENCE (CMFHALION).

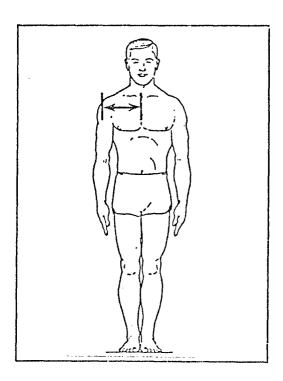
VARIABLE NO. (D9) — CHEST-WAIST EROP, CMFHALICN

FEMALES MALES

			THE SUMMARY STA	-
THE SUM	MARY STATI	STICS	THE SUMMARY STA	
CENTIMETE	TRS .	INCHES	CENTIMETERS	INCHES
10.83	MEAN	4.26	12.08 MEAN	4.75
0.28	SE (MEAN)	0.11	0.21 SE(MEA	4) 0.08
	ST DEV		4.70 ST DE	
	SE(SD)		0.15 SE(SD)	
0.20	OL (OD)	0.00	0.13 51(55)	, 0.00
-5.90	MINIMUM	-2.32	-2.10 MINIMU	√ -0.83
25.40	MAXIMUM	10.00	27.50 MPXIMUI	10.83
23.40	TRACTION	10.00	27.50 IF2HI	1 10.03
OFFE. OF	VARIATION	48 - 0%	COEFF. OF VARIATION	W 38.9%
	VETA I		SYMMETRY——VETA	
	VETA II		KURTOSIS—VETA	T 3.05
MMCOTS	VEIN II	3.00	NORICE: TOTAL	11 3.05
NUMBED OF	SUBJECTS	224	NUMBER OF SUBJECTS	2 407
NOPIDER OF	SUDIECIS	334	NUMBER OF SUBJECTS	5 407
				
T	PERCENTILES	•	PERCENTI	rec
			PERCENTI.	
CEALIMETE	RS	THCHES	CENTIMETERS	INCHES
-2 74	1ST	_1 00	1.87 15	r 0.74
-1.19	2ND	-0.47	2.71 2N	D 1.07
-0.14	3RD	-0.06	3.34 3R 4.31 5T	D 1.32
1.34	5TH 10TH	0.53	4.31 5TI 5.95 10TI	H 1.70
3.69	101H	1.45	5.95 1011	H 2.34
	15TH			H 2.81
6.49	20TH	2.56	8.07 201	H 3.18
7.53	25TH 30TH	2.96	8.90 25TI 9.63 30TI	H 3.50
8.43	30TH	3.32	9.63 30T	H 3.79
9.24	35TH	3.64	10.31 35T	H 4.06
	40TH		10.95 401	H 4.31
	45TH			H 4.55
			12 15 500	H 4.79
11.50	507H	4.77	12.15 501	
12.00	55TH 60TH	4.73	12.75 55TI 13.34 60TI	H 5.02
12.64	601H	4.98	13.34 601	H 5.25
	65TH		13.94 65T	
	70TH		14.58 701	
14.57	75TH	5.74	15.26 75T	H 6.01
15.29	80TH	6.02	16.02 80T	H 6.31
16.08	85'TH	6.33	16.90 85T	
17.04	90TH	6.71	18.03 901	
18.41	95TH	7.25	19.80 95T	
19.32	97TH			
		7.61		
20.01	98TH	7.88	22.03 98T	
21.17	99TH	8.34	23.74 99T	H 9.35

(D10) CIAVICIE LINK

The distance between the midline of the body and the acromicn landmark on the tip of the right shoulder is calculated as one-half of BIACKCMIAL EREADIH.



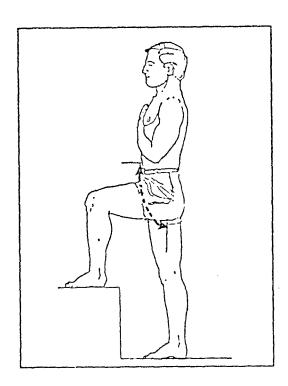
VARIABLE NO. (D10) — CLAVICLE LINK

FEMALES

			_	
THE SUMM	iary stati	ISTICS INCHES	THE SUMMARY STAT	ISTICS INCHES
CENTIMETER	©	TMCJIE2	CENTIFIETERS	TIACHES
18.46	MEAN	7.27	20.03 MEAN	7.89
	SE (MEAN)	0.02	0.04 SE(MEAN)	0.02
	ST DEV	0.30	0.87 ST DEV	
0.03		0.01	0.03 SE(SD)	
0.05	D11(D2)	0.01	0.03 55(55)	0.02
16.30	MINIMUM		17.40 MINIMUM	
20.60	MUMIXAM	8.11	22.60 MAXIMUM	8.90
COEFF. OF V	זגיייית דסתי	A 19	COEFF. OF VARIATION	1 12
SYMMETRY—			SYMMETRY——VETA I	
KURIOSIS		2.65	KURIOSIS——VETA II	
MMCOID	AINIW II	2.03	WRIGHTSVEIR II	2.99
NUMBER OF S	UBJECTS	334	NUMBER OF SUBJECTS	487
		_		_
	RCENTILES		PERCENTILE	
CENTIMETER	క	INCHES	CENTIMETERS	INCHES
16.84	1ST	6.63	17.86 1ST	7.03
16.97	2ND	6.68	18.15 2ND	7.15
17.07	3RD	6.72	18.33 3RD	7.22
17.22	5TH	6.78	18.57 5TH	7.31
17.48	10TH	6.88	18.92 10TH	
17.67	15TH	6.96	19.15 15TH	
17.83	20TH	7.02	19.33 20TH	7.61
17.96	25TH	7.07	19.48 25TH	
18.08	30TH	7.12	19.61 30TH	
18.20	35TH	7.16	19.74 35TH	
18.31	40TH	7.21	19.85 40TH	
18.41	45TH	7.25	19.96 45TH	7.86
18.51	50TH	7.29	20.07 50TH	7.90
18.61	55TH	7.33	20.18 55TH	7.94
18.71	60TH	7.37	20.28 60TH	7.99
18.81	65TH	7.41	20.39 65TH	
18.91	70TH	7.45	20.51 70TH	8.08
19.02	75TH	7.49	20.64 75TH	
19.14	80TH	7.54	20.78 80TH	
19.28	85TH	7.59	20.94 85TH	
19.44	90TH	7.65	21.14 901H	
19.67	95TH	7.74	21.45 95TH	
19.81	97TH	7.80	21.65 97TH	8.52
19.90	98TH	7.84	21.79 98TH	8.58
20.05	99TH	7.89	22.03 99TH	8.67

(D11) CROTCH LENGTH, ANTERICR (MATURAL INTERNATION)

The surface distance between the inner thigh landmark and the abdomon at the level of the waist at its natural indentation of a subject standing with one leg on a step is calculated as follows: CROTCH LENGTH (NATURAL INDENTATION).

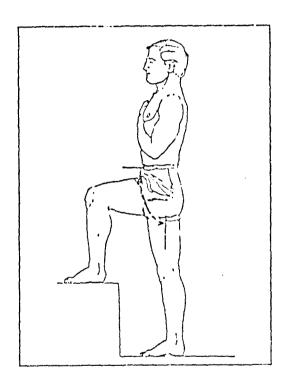


VARIABLE NO. (D11)—CROTCH LENGTH, ANTERICR (NATURAL INCENTATION) FEMALES MALES

			-	
THE SUMMA	RY STAT	ISTICS	. THE SIM	Mary Statistics
CENTIMETERS		INCHES	CENTIMETE	RS INCHES
38.07	MEAN	14.99	38.59	MEAN 15.19
	E (MEAN)	0.07	0.14	SE(MEAN) 0.06
	ST DEV	1.29		ST DEV 1.22
0.13	SE(SD)	0.05	0.10	SE(SD) 0.04
29.50 M	MUMIKI	11.61	26.70	MINIMUM 10.51
50.00 M	MUMIXA	19.69	49.60	
COEFF. OF VA	RIATION	8.6%	COFFF OF	VARIATION 8.1%
SYMMETRY	VETA I	0.33	SVMMETTOV	
KURIOSIS	VETA II	3.38	KURIOSIS	
. —	-	0.00	ww.rop19	VETA II 3.51
NUMBER OF SU	BJECIS	334	NUMBER OF	SUBJECIS 487
PER	CENTILES	3	77	
CENTIMETERS		I JES	CENTIMETE	ERCENITLES
			CENTIMETE	RS INCHES
31.13	1ST	12.25	30.78	1ST 12.12
31.80	2ND	12.52	31.94	2ND 12.58
32.26	3RD	12.70	32.63	3RD 12.85
32.90	5TH	12.95	33.51	5TH 13.19
33.95	10TH	13.37	34.75	10TH 13.68
34.69	15TH	13.66	35.53	
35.28		13.89	36.13	
35.79	25TH	14.09	36.63	
36.26	30TH	14.28		25TH 14.42
36.69		14.45	37.07	30TH 14.59 35TH 14.75
37.11	40TH	14.61	37.47 37.95	
37.51	45TH	14.77	37 . 85	40TH 14.90
37.91	50TH	14.77	38.22	45TH 15.05
38.32	55TH	15.09	38.58	50TH 15.19
38.73	60TH	15.25	38.94	55TH 15.33
39.16	65TH	15.42	39.31	60TH 15.48
39.62	70TH		39.69	65TH 15.63
40.13	75TH	15.60	40.10	70TH 15.79
40.13		15.80	40.55	75TH 15.97
41.38	HT08	16.03	41.06	80TH 16.17
	85TH	16.29	41.67	35TH 16.41
42.27	90TH	16.64	42.47	90TH 16.72
43.67	95TH	17.19	43.71	95TH 17.21
44.65	97TH	17.58	44.56	97TH 17.54
45.40	98TH	17.87	45.20	98TH 17.80
46.67	99TH	18.37	46.27	99TH 18.22

(D12) CROICH LENGTH ANTERICR (CHELLICH)

The surface distance between the inner thigh landmark and the abdomen at the level of the waist at the navel (comphalion) of a subject standing with one leg on a step is calculated as follows: CROTCH LENGTH (CMHALLON) minus CROTCH LENGTH POSTERIOR (CMHALLON).

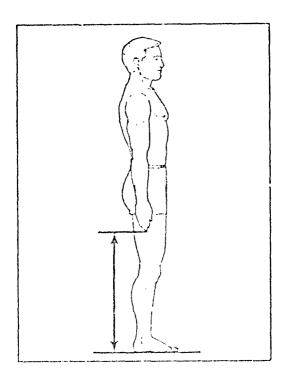


VARIABLE NO. (D12) -- CROTCH LENGTH ANTERIOR (CMPHALICN) FEMALES MALES

THE SUMMARY STATIS CENTIMETERS I	TICS NCHES	THE SUMMA CENTIMETERS		TICS NOHES
31.02 MEAN 0.14 SZ(MEAN) 2.48 ST DEV 0.10 SE(SD)		2.65	MEAN E(MEAN) ST DEV SE(SD)	1.04
25.30 MLNIMUM 42.60 MAXIMUM	9.96 16.77	24.40 M 41.90 M	INIMUM AXIMUM	9.61 16.50
COEFF. OF VARIATION SYMMETRYVETA I KURICSISVETA II NUMBER OF SUBJECTS	0.39 4.04	COEFF. OF VA SYMMETRY FURIOSIS NUMBER OF SU	VETA I VETA II	0.12 2.99
PERCENTILES CENTIMETERS I	HOMES	PER CENTIMETERS	CEVILES 1	NOIFS
25.46 1ST 26.03 2ND 26.43 3PD 26.43 3PD 26.98 5TH 27.86 10TH 28.47 15TH 28.95 20TH 29.36 25TH 29.36 25TH 30.06 35TH 30.06 35TH 30.38 40TH 30.68 45TH 30.98 50TH 31.28 55TH 31.58 60TH 31.89 65TH 32.22 70TH	10.02 10.25 10.40 10.62 10.97 11.21 11.40 11.56 11.70 11.83 11.96 12.08 12.20 12.31 12.43 12.56	CENTIMETERS	1ST 2ND 3PD 5TH 10TH 15TH 20TH 25TH 30TH 40TH 45TH 50TH 55TH	NCHES 10.72 10.91 11.05 11.24 11.56 11.79 11.98 12.15 12.30 12.44 12.58 12.72 12.85 12.99 13.13 13.27
32.98 80'H 33.46 85'H 34.09 90'H 35.09 95'H 35.80 97'H 36.36 98'H	12.99 13.17 13.42 13.81 14.00	34.99 35.53 36.20 37.18 37.79	80IH 85IH	13.78 13.99 14.25 14.64 14.88

(D13) DACTYLICN HEIGHT

The vertical distance between a standing surface and the tip of the right middle finger (dactylion) of a subject standing erect with the arms and hands straight at the sides is calculated as follows: WRIST HEIGHT minus HAND IFNGIH.



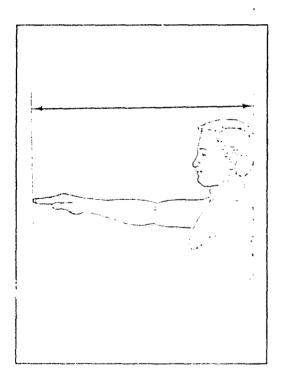
VARIABLE NO. (D13) -- DACTYLICN HEIGHT

FEMALES

THE SUMMAR CENTIMETERS	y stat	INCHES ISTICS		THE SUM CENTIMETE	Mary Stat RS	ISTICS INCHES
63.75 0.17 SE 3.10 S 0.12 S	(MEAN)	0.07	-		MEAN SE (MEAN) ST DEV SE (SD)	0.06 1.38
54.50 MI 73.10 MA					MUMINIM MUMIXAN	
COEFF. OF VAR SYMMETRY——V KURTOSIS——V NUMBER OF SUB	ETA II	-0.16 3.29		COEFF. OF SYMMETRY KURTOSIS— NUMBER OF S	VETA I	-0.09 3.19
PERC CENTIMETERS	entiles	S INCHES		PI	PCENTILES	INCHES
55.64 56.73 57.42 58.35 59.72 60.61 61.28 61.84 62.32 62.75 63.15 63.53 63.89 64.25 64.61	35TH 40TH 45TH 50TH 55TH 60TH	21.91 22.33 22.61 22.97 23.51 23.86 24.13 24.35 24.54 24.71 24.86 25.01 25.16 25.30 25.44		57.51 58.66 59.38 60.33 61.76 62.69 63.41 64.02 64.55 65.03 65.48 65.92 66.34 66.76 67.18	1ST 2ND 3RD 5TH 10TH 15TH	22.64 23.09 23.38 23.75 24.32 24.68 24.96 25.20 25.41 25.60 25.78 25.95 26.12
64.97 65.34 65.75 66.20 65.73 67.44 68.57 69.40 70.07	65TH 70TH 75TH 80TH 85TH 90TH 95TH 97TH 98TH 99TH	25.58 25.72 25.88 26.06 26.27 26.75 27.00 27.32 27.59 28.05		67.62 68.07 68.57 69.13 69.79 70.64 71.99 72.92 73.66 74.90	65TH 70TH 75TH 80TH 85TH 95TH 95TH 98TH 99TH	26.62 26.80 27.00 27.22 27.48 27.81 28.34 28.71 29.00 29.49

(D14) DACTYLION REACH FROM WALL

The horizontal distance between the plane of the back and the tip of the right middle finger or a subject standing erect with the back against a wall and the arm, hand, and fingers extended forward horizontally is calculated as follows: WRIST-WALL IENGTH plus HAND IENGTH.



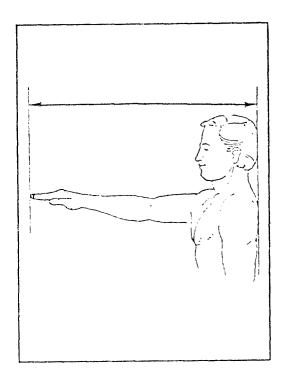
VARIABLE NO. (D14) -- DACTYLION REACH FROM WALL

FEMALES

THE SIM	Mary Stati	STICS	-	THE CIM	Mary Stati	retites
CENTIMETE		INCHES		CENTIMETE		INCHES
81.64		32.14		87.77		
	SE (MEAN)	0.06		0.18	, ,	0.07
2.72	ST DEV	1.07		3.93	ST DEV	
0.11	SE(SD)	0.04		0.13	SE (SD)	0.05
75.90	MINIMUM	29.88		77.70	MINIMUM	30.59
91.10	MAXIMUM	35.87		99.90	MAXIMUM	39.33
COEFF. OF				COEFF. OF		
SYMMETRY	VETA I	0.51		SYMMETRY	VETA I	0.16
KURTOSIS	VETA II	3.24		KURTOSIS	VETA II	2.97
NUMBER OF	SUBJECTS	334		NUMBER OF	SUBJECTS	487
			_	11.		
F	PERCENTILES	3		F	PERCENTILES	5
CENTIMETE	RS	INCHES		CENTIMETE	RS	INCHES
76.54	1ST	30.13		79.81	1ST	31.42
76.85	2ND	30.26		80.19	2ND	31.57
77.10	3RD	30.36		80.58	3RD	31.73
77.51	5TH	30.52		81.28	5TH	32.00
78.25	10TH	30.81		82.58	10TH	32.51
78.80	15TH	31.02		83.57	15TH	
79.27	201H	31.21		84.37	20IH	33.22
79.68	25TH	31.37		85.07	25TH	33.49
80.06	301H	31.52		85.70	30TH	33.74
80.42	35TH	31.66		86.27	35TH	
80.76	40TH	31.79		86.81	40TH	34.18
81.10	45TH	31.93		87.32	45TH	
81.43	50TH	32.06		87.82	50TH	34.57
81.77	55TH	32.19		88.30	55TH	34.77
82.12	60TH	32.33		88.79	60TH	3:.96
82,49	65TH	32.43		89.28	65TH	35.15
82.88	70TH	32.63		89.80	70111	35.35
83.31	75TH	32.80		90.35	75TH	
83.80	HTOS	32.99		90.97	80TH	
84.39	85TH	33.23		91.69	85TH	36.10
85.17	90TH	33.53		92.65	90TH	
86.41	95TH	34.02		94.22	95TH	37.10
87.29	97TH	34.37		95.41	97TH	
87,99	98'IH	34.64		96.40	98'TH	
89.18	99TH	35.11		98.22	99TH	38.67

(D15) DACTYLICN REACH FROM WALL, EXTENDED

The horizontal distance between the plane of the back and the tip of the right middle finger of a subject standing erect with the left shoulder against a wall and the right shoulder, arm, hand, and fingers extended forward horizontally as far as possible is calculated as follows: WRIST-WALL LENGTH, EXTENDED plus HAND LENGTH.

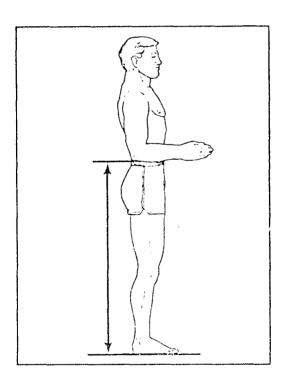


VARIABLE NO. (D15)—DACIYLION REACH FROM WALL, EXTENDED
FEMALES
MALES

			_			
THE SUMMAN	RY STATI				MARY STATI	
CENTIMETERS		INCHES		CENTIMETE	RS	INCHES
	MEAN	34.55		93.35	MEAN	36.75
0.15 SH	E (MEAN)	0.06		0.18	SE (MEAN)	0.07
2.78	ST DEV	1.09		4.01	ST DEV	1.58
0.11 8	SE(SD)	0.04		0.13	SE (SD)	0.05
81.80 M				82.90	MUMINIM	32.64
100.10 M	MUMIXA	39.41		106.90	MUMICKAM	42.09
COEFF. OF VAR	NOITAIS			COEFF. OF	VARIATION	4.3%
SYMMETRY——	ÆTA I	0.57		SYMMETRY-	VETA I	0.23
KURICSIS	ÆTA II	3.93		KURTOSIS-	VETA II	3.17
NUMBER OF SUE	BUECTS	334		NUMBER OF	SUBJECTS	487
		· · · · · · · · · · · · · · · · · · ·	-			
PERC	ENTILES	5		I	ERCENTILES	;
CENTIMETERS		INCHES		CENTIMETE	IRS	INCHES
82.35	1ST	32.42		84.29	1ST	33.19
82.70	2ND	32.56		85.37	2ND	33.61
82.99	3RD	32.67		86.04	3RD	33.87
83.44	5'IH	32.85		86.94	5TH	34.23
84.26	10TH	33.17		88.32	10TH	34.77
84.87	15TH	33.41		89.25	1 57H	35.14
85.37	20TH	33.61		89.99	20TH	35.43
85.81	25TH			90.63	25TH	35.68
86.20	30TH	33.54		91.20	30TH	35.90
86.57	35TH	34.08		91.73	35TH	36.11
86.93	40TH	34.22		92.24	40TH	36.31
27.27	45TH	34.36		92.73	45TH	36.51
87.61	501H	34.49		93.23	50TH	36.70
87.95	55TH	34.63		93.72	55TH	36.90
88.30	60TH	34.76		94.23	60TH	37.10
88.66	65TH	34.90		94.76	65TH	37.31
89.04	701H	35.06		95.33	70TH	37.53
89.47	75TH	35.22		95.95	75TH	37.77
89.95	HT08	35.41		96.65	80TH	38.05
90.53	85TH	35.64		97.48	85'IH	
91.29	90TH	35.94		98.56	90TH	38.80
92.55	95TH	36.44	•	100.20	95TH	39.45
93.47	97TH			101.31	97TH	
94.21	98TH	37.09		102.14	98TH	40.21
95.51	99TH	37.60		103.49	99TH	

(D16) ELECW REST HEIGHT, STANDING

The vertical distance between a standing surface and the lowest point of the right elbow of a subject standing erect with the right elbow flexed 90 degrees is calculated as follows: ELBOW REST HEIGHT plus STATURE minus SITTING HEIGHT.



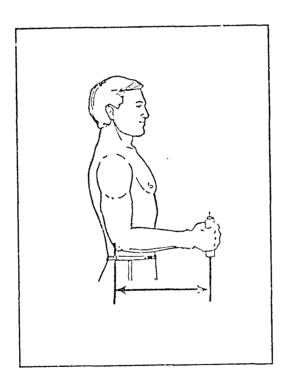
VARIABLE NO. (D16) -ELECH REST HEIGHT, STANDING

FEMALES

			· · · · · · · · · · · · · · · · · · ·		
THE SUM	Mary Stati Rs	STICS INCHES	THE S CENTIME	SUMMARY STAT	ISTICS INCHES
103.01 0.19 3.47 0.13	MEAN SE (MEAN) ST DEV SE (SD)	40.55 0.07 1.37 0.05	108.3 0.2 4.5 0.1	21 SE (MEAN) 57 ST DEV	0.08
93.80 118.50	MINIMUM MAXIMUM		93.3	BO MINIMUM SO MAXIMUM	36.73
COEFF. OF SYMMETRY— KURTOSIS—	VARIATION VETA I		SYMMETRY	OF VARIATION YVETA I SVETA II	4.2% -0.01
NUMBER OF	SUBJECTS	334	NUMBER (OF SUBJECTS	487
PERCENTILES CENTIMETERS I		INCHES	CENTIM	PERCENTILE ETERS	S INCHES
95.36 96.24 96.79 97.53 98.67 99.45 100.07 100.62 101.11 101.57 102.02 102.45 102.88 103.32 103.77 104.23 104.73 105.27 105.88 106.58 107.48 108.79		37.89 38.11 38.40 38.85 39.15 39.40 39.61 39.81 39.99 40.16 40.33 40.50 40.68 40.85 41.04 41.23 41.44 41.68 41.96 42.31 42.83	97. 93. 99. 100. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114.	81 2ND 68 3RD 83 5TH 53 10TH 65 15TH 52 20TH 28 25TH 95 30TH 58 35TH 17 40TH 75 45TH 32 50TH 48 60TH 09 65TH 44 75TH 44 75TH 23 80TH 15 85TH 15 85TH 31 90TH 02 95TH	38.90 39.25 39.70 40.36 40.81 41.15 41.45 41.71 41.96 42.19 42.42 42.65 42.87 43.10 43.34 43.60 43.88 44.19 44.55 45.00 45.68
109.61 110.20 111.09	98TH	43.15 43.39 43.74	117. 117. 119.	89 98TH	46.41

(D17) ELECH-CENTER OF GRIP LENGTH

The horizontal distance between the posterior point of the right elbow flexed 90 degrees and the center of a 1-1/4" diameter dowel gripped vertically in the right hand is calculated as follows: FOREARM-HAND LENGTH minus HAND LENGTH plus WRIST-CENTER OF GRIP LENGTH.



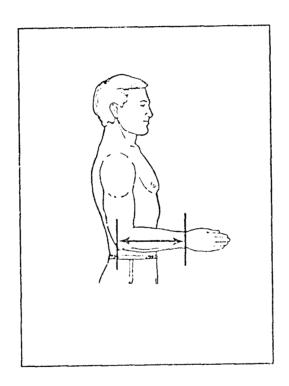
VARIABLE NO. (D17) -- ELECW-CENTER OF GRIP LENGTH

144W	

	MARY STATI		·.		MARY STATI	
CENTIMETE	RS	INCHES		CENTIMETE	165	INCHES
33.36	MEAN	13.13		35.75	MEAN	14.07
	SE (MEAN)	0.02			SE (MEAN)	
	ST DEV	0.44			ST DEV	
0.04	SE(SD)			0.05		
0.01	2.2(2.2)	0.02		••••	,	
30.10	MUMIMUM	11.85			MUNIMUM	
37.20	MUMIXAM	14.65		40.40	MAXIMUM	15.91
ODEFF. OF	VARIATION	3.4%		OEFF. OF	VARIATION	4.4%
COEFF. OF SYMMETRY	VETA I	0.54	5	SYMMETRY-	VETA I	0.20
KURTOSIS		3.72			VETA II	
NUMBER OF	SUBJECTS	334	1	NUMBER OF	SUBJECTS	487
ъ	ERCENTILES			ī	PERCENTILE	3
CENTIMETE		INCHES		CENTIMETE		INCHES
CLIVILLIBIL		221022				
30.94	1ST	12.18		32.50	1ST	
31.26	2ND	12.31		32.78	2ND	
31.45	3RD	12.38		32.97	3RD	
31.69	STH	12.48		33.25	5TH	
32.05	10TH	12.62		33.73	10TH	
32.28	15TH	12.71		34.08	15TH	
32.45	20TH	12.78		34.36	20TH	13.53
32.61	25TH	12.84		34.62	25TH	13.63
32.75	30TH	12.89		34.85	30TH	
32.88	35TH	12.94		35.07	35TH	
33.00	401H	12.99		35.28	40TH	
33.13	45TH	13.04		35.48	45TH	
33.25	501H	13.09		35.69	50TH	14.05
33.38	55TH	13.14		35.89	55TH	14.13
33.51	60TH	13.19		36.10	60TH	14.21
33.66	65TH	13.25		36.32	65TH	14.30
37.82	70TH	13.31		36.55	70TH	14.39
34.00	751H	13.38		36.80	75TH	14.49
34.21	HT08	13.47		37.08	HT08	
34.47	85TH	13.57		37.41	85TH	14.73
34.83	90TH	13.71		37.82	90TH	14.89
35.44	95TH	13.95		38.43	95TH	15.13
35,88	97TH	14.13		23.82	97TH	
36.23	93TH	14.26		ع.11	98TH	15.40
36.84	99TH	14.50		39.56	99TH	15.57

(D18) ELBOW-WRIST LENGTH

The horizontal distance between the posterior point of the right elbow flexed 90 degrees and the stylion landwark on the right wrist of a subject standing with the forearm and hard held horizontally is calculated as follows: FOREARM-HAND LENGTH minus HAND LENGTH.



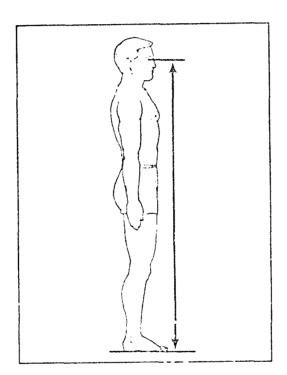
VARIABLE NO. (D18) - ELECH-WRIST LEXG'H

FEMALES

THE SUN	mmary stati Ers	STICS INCHES	THE SUI	MARY STATISTICS RS INCHES
. 26.66	MEAN	10.50	28.95	MEAN 11.40
0.05	SE (MEAN)	0.02	0.06	SE(MEAN) 0.02
0.97	ST DEV	0.38	1.35	ST DEV 0.53
0.04	SE(SD)	0.01	0.04	SE(SD) 0.02
24.20	MINIMUM		25.70	MINIMUM 10.12
30.00	MAXIMUM	11.81	33.10	MAXIMUM 13.03
	VARIATION		COEFF. OF	VARIATION 4.7%
SYMMETRY		0.45		VETA I 0.20
KURTOSIS-	VETA II	3.39	KURTOSIS	VETA II 2.77
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS 487
			-	
	PERCENTILES			PERCENTILES
CENTIMETE	£85	INCHES	CENTIMETE	ers inches
24.58	1ST	9.68	26.16	1ST 10.30
24.84	2ND	9.78	26.35	2ND 10.38
25.00	3RD	9.84	26.51	3RD 10.44
25.21	5TH	9.92	26.75	5TH 10.53
25.51	10TH	10.04	27.18	10TH 10.70
25.70	157H	10.12	27.50	15TH 10.83
25.86	20TH	10.18	27.76	20TH 10.93
26.00	25TH	10.24	27.99	25TH 11.02
26.12	30TH	10.29	28.19	30TH 11.10
26.24	35TH	10.33	28.38	35TH 11.18
26.36	40TH	10.38	28.57	40TH 11.25
26.47	45TH	10.42	28.74	45TH 11.32
26.59	50TH	10.47	28.92	50TH 11.39
26.70	55TH	10.51	29.09	55TH 11.45
26.82	60TH	10.56	29.27	60TH 11.52
26.95	65TH	10.61	29.45	65TH 11.60
27.10	70TH	10.67	29.64	70TH 11.67
27.25	75TH	10.73	29.85	75TH 11.75
27.44	HT08	10.80	30.08	80TH 11.84
27.65	85TH	10.89	30.35	85TH 11.95
27.94	90TH	11.00	30.70	90TH 12.09
28.40	95TH	11.18	31.23	95TH 12.29
28.70	971H	11.30	31.59	97TH 12.44
28.94	98TH	11.39	31.87	98TH 12.55
29.31	HTC9	11.54	32.35	99TH 12.74

(D19) EYE HEIGHT

The vertical distance between a standing surface and the outer corner of the right eye of a subject standing creet with the head in the Frankfort plane is calculated as follows: EYE HEIGHT, SITTING plus STATURE minus SITTING HEIGHT.



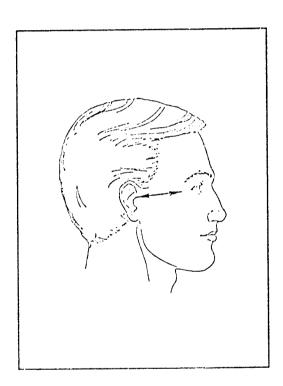
VARIABLE NO. (D19)—EYE HEIGHT

FEMALES

THE SUMMARY STATE		ISTICS	THE SUMMARY STAT	TSTTCS
CENTIMETERS		INCHES	CENTIMETERS	INCHES
				HIGH
156.59	MEAN	61.65	165.14 MEAN	6E 00
0.24				
	ST DEV			
4.33	SE (SD)	1.71	6.36 ST DEV	
0.17	SE(SD)	0.07	0.20 SE(SD)	0.08
145.60	MINIMUM	57.32	146.50 MINIMUM	57.68
175.30	MAXIMUM	69.02	181.50 MAXIMUM	71.46
			TOT. 30 TARALLENT	11.40
COEFF. OF	VARIATION	2.8%	COEFF. OF VARIATION	3.9%
SYMMETRY	VETA I	0.43	SYMMETRYVETA I	
KURTOSIS-	VETA II	3.75	KURTOSISVETA II	
			THE MILE	2.19
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS	487
			,	
	ERCENTILES	3	PERCENTILE	3
CENTIMETE	RS	INCHES	CENTIMETERS	INCHES
146.59	1ST		150.07 1ST	59.08
148.19	2ND	58.34	151.89 2ND	59.80
149.06	3RD	58.69	153.01 3RD	
150.11	5TH	59.10	154.53 5TH	
151.52	10TH	59.65	156.86 10TH	
152.40	15TH	60.00	153.43 15TH	
153.08	20TH	60.27		
153.67	25TH	60.50	159.68 20TH	
			160.76 25TH	
154.21	30111	60.71	161.74 30TH	
154.72	35TH	60.91	162.64 35TH	64.03
155.22	40TH	61.11	163.50 40TH	64.37
155.72	45TH	61.31	164.34 45TH	64.70
156.23	50TH	61.51	165.17 50TH	
156.76	55TH	61.72	166.00 55TH	
157.32	60TH	61.94	166.83 60TH	
157.91	63TH	62.17	167.70 65TH	66.02
158.55	70TH	62.42	168.61 70TH	
159.27	75TH	62.71		
160.10	80IH	63.03	169.59 75TH	
161.09			170.63 80TH	67.20
	85TH	63.42	171.92 85TH	
162.35	90TH	63.92	173.45 90TH	68.29
164.20	95TH	64.64	175.61 95TH	69.14
165.33	97TH	65.09	176.90 97TH	69.65
166.10	98TH	65.39	177.78 99TH	69.99
167.17	99TH	65.81	179.04 99TH	
			2.5.0.	

(D20) EYE-TRAGICN LINK

The distance between the ectoorbitale landmark near the outer corner of the eye and the tragion landmark on the cartilaginous flap of flesh in front of the earhole is calculated using the distance formula for the points: ECTOORBITALE and TRAGION.



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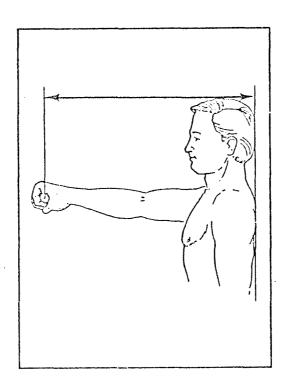
VARIABLE NO. (D20)—EYE-TRAGION LINK

FEMALES

THE SUN	MARY STATI	STICS INCHES	THE SUMMARY S CENTIMETERS	TATISTICS INCHES
CENTIMETE	200	THOTES	CEMITALITY	ממנוטאת
	MEAN		6.28 MEA	
0.02	SE (MEAN)	0.01	0.02 SE(ME	AN) 0.01
0.35	SE (MEAN) ST DEV	0.14	0.33 ST D	EV 0.13
0.01	SE(SD)	0.01	0.01 SE(S	D) 0.00
4.80	MINIMUM	1.89	5.00 MINIM	UM 1.97
6.70	MAXIMUM	2.64	7.20 MAXIM	UM 2.83
COEFF. OF	VARIATION	6.0%	COEFF. OF VARIAT	ION 5.3%
SYMMETRY-		-0.17	SYMMETRYVETA	
	VETA II		KURIOSISVETA	
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJEC	TS 483
I	PERCENTILES	3	PERCENI	TLES
CENTIMETE	ERS	INCHES	CENTIMETERS	INCHES
4.96	1ST	1.95	5.4 3 1	ST 2.14
<i>5</i> .05	2ND	1.99	5.57 2	ND 2.19
5.11	3RD	2.01	5.6 5 3	RD 2.23
5.19	5TH	2.04	5.7 5 5	TH 2.26
5.32	10TH	2.10	5.88 10	TH 2.31
5.42	15TH	2.13	5.96 15	TH 2.34
5:49	20TH	2.16	6.01 20	TH 2.37
5.56	25TH	2.19	6.06 25	TH 2.39
5.61	30TH	2.21	0.11 30	TH 2.41
5.67	35TH	2.23	6.15 35	TH 2.42
5.72	40TH	2.25	6.19 40	TH 2.44
5.76	45TH	2.27	6.23 45	TH 2.45
5.81	50TH	2.29	6.27 50	TH 2.47
5.85	55TT	2.30	6.31 55	TH 2.48
5.90	60TH	2.32	6.35 60	TH 2.50
5.94	65TH	2.34		TH 2.52
5.99	70TH	2.36		TH 2.54
6.04	75TH	2.38	6.50 75	TH 2.56
6.10	HTOS	2.40		TH 2.58
6.16	85TH	2.42		
6.24		2.46	6.72 90	TH 2.61 TH 2.65
6.35	95TH	2.50		TH 2.70
6.42	97TH	2.53		TH 2.73
6.47		2.55		TH 2.75
6.56	99TH	2.58		TH 2.77

(D21) FUNCTIONAL CRIP REACH

The horizontal distance between the vertical plane of the back and the center of a 1-1/4" diameter dowel gripped in the right hand of a subject standing erect with the back against a wall and the arm and hand extended forward horizontally is calculated as follows: WRIST-WALL LENGIH plus WRIST-CENTER OF GRIP LENGIH.



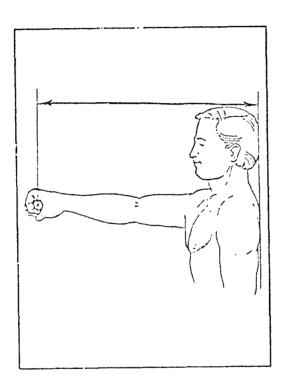
VARIABLE NO. (D21) -FUNCTIONAL GRIP REACH

FEMALES

			·· • • • • • • • • • • • • • • • • • •	
	Mary Stati		THE SUMMARY	
CENTIMETE	RS	INCHES	CENTIMETERS	INCHES
70.08	MEAN	27.59	75.12 ME	AN 29.58
0.13		0.05	0.16 SE(M	
2.42	ST DEV	0.95		DEV 1.38
0.09	SE(SD)	0.04		SD) 0.04
			·	•
	MUNIMUM			MUM 25.98
78.50	MAXIMUM	30.91	87.30 MAXI	MJM 34.37
COEFF. OF	VARIATION	3.5%	COEFF. OF VARIA	TION 4.7%
SYMMETRY		0.39	SYMMETRY——VEI	
KURTOSIS	VETA II	3.07	KURTOSISVEI	
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJE	CTS 487
*****************	,	***************************************		
	ERCENTILES		PERCEN	
CENTIMETE	RS	INCHES	CENTIMETERS	INCHES
65.25	1ST	25.69	68.16	1ST 26.83
65.67	2ND	25.86		2ND 26.92
65.96	3RD	25.97	68.70	3RD 27.05
66.38	5TH	26.13	69.29	5TH 27.28
67.07	10TH	26.41	70.45 1	OTH 27.74
67.57	15TH	26.60	71.33 1	.0TH 27.74 .5TH 28.08
67.98	20TH	26.76		OIH 28.37
68.35	25TH	26.93	72.70 2	5TH 28.62
68.69	30TH	27.04		OTH 28.85
69.00	35TH	27.17		5TH 29.05
69.31	40TH	27.29		OTH 29.24
69.62	45TH	27.41		5TH 29.42
69.92	50TH			OTH 29.60
70.23	55TH	27.65		5TH 29.77
70.55	601H	27.78		OTH 29.94
70.88	65TH	27.91		57H 30.11
71.24	701H	28.05		OTH 30.29
71.63	75TH	28.20		5TH 30.48
72.08	80IH	28.38		OTH 30.69
72.61	85TH	28.59		5TH 30.93
73.29	90TH	28.85		OTH 31.26
74.32	95TH	29.25		51H 31.81
75.01	97TH	29.53		71H 32.23
75.53	971H 98TH	29.74		98TH 32.58
76.35	901H	30.06		9TH 33.25
10.75	JAIN	20.00	84.40	37U 33.73

(D22) FUNCITIONAL GRIP REACH, EXTENDED

The horizontal distance between the vertical plane of the back and the center of a 1-1/4" diameter dowel gripped in the right hand of a subject standing erect with the left shoulder against a wall and the right shoulder, arm, and hand extended forward horizontally as far as possible is calculated as follows: WRIST-WALL IFNGIH, EXTENDED plus WRIST-CENTER OF GRIP LENGIH.



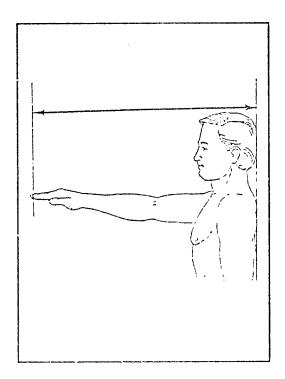
VARIABLE NO. (D22)—FUNCTIONAL GRIP REACH, EXTENDED

FEMALES

THE SUMMARY STAT	ISTICS INCHES	THE SUMMARY STAT	ISTICS INCHES
76.20 MEAN 0.14 SE (MEAN) 2.53 ST DEV 0.10 SE (SD)	0.05 1.00	80.70 MEAN 0.16 SE(MEAN) 3.61 ST DEV 0.12 SE(SD)	0.06
70.30 MINIMUM 87.60 MAXIMUM		71.20 MINIMUM 92.80 MAXIMUM	
COEFF. OF VARIATION 3.3% SYMMETRY—VETA I 0.47 KURTOSIS—VETA II 3.71 NUMBER OF SUBJECTS 334		COEFF. OF VARIATION SYMMETRY——VETA I KURTCSIS——VETA II NUMBER OF SUBJECTS	0.30
FERCENTILE CENTIMETERS	S INCHES	PERCENTILES CENTIMETERS	INCHES
74.76 30TH	28.18 28.24 28.32 28.45	72.96 1ST 73.78 2ND 74.32 3RD 75.05 5TH 76.21 10TH 77.01 15TH 77.65 20TH 78.22 25TH 78.73 30TH 79.20 35TH 79.20 35TH 79.66 40TH 80.10 45TH 80.55 50TH 81.00 55TH 81.00 55TH 81.46 60TH 81.46 60TH 81.94 65TH 82.45 70TH 83.66 80TH 83.66 80TH 83.66 80TH	28.73 29.05 29.05 29.26 29.55 30.00 30.32 30.57 30.99 31.18 31.36 31.54 31.71 31.89 32.07 32.26 32.46 32.68 32.94
79.43 901H 80.46 95TH 81.19 97TH 81.76 98TH 82.76 99TH	31.27 31.63 31.96 32.19 32.58	84.42 851H 85.41 90TH 86.93 95TH 87.96 97TH 88.75 98TH 90.03 99TH	33.63 34.22 34.63 34.94

(D23) INDEX FINGER FEACH

The horizontal distance between the vertical plane of the back and the tip of the right index firger of a subject standing erect with the back against a wall and the arm, hand, and fingers extended forward horizontally is calculated as follows: WRIST-WALL LENGTH plus WRIST-INDEX FINGER LENGTH.



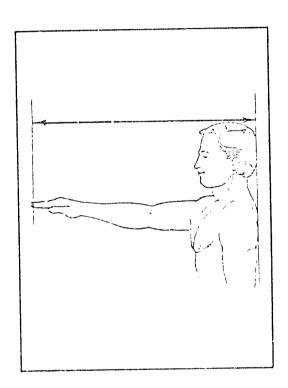
VARIABLE NO. (D23)—INDEX FINGER REACH

FEMALES

THE SUMMARY STATE			THE SUMMARY STA		ISTICS
CENTIMETE	RS	INCHES	CENTIMET	ers	INCHES
00.50	4.000				
	MEAN			MEAN	
	SE (MEAN)		0.18	SE (MEAN)	0.07
2.68	ST DEV	1.05	3.93	ST DEV	1.55
0.10	SE(SD)	0.04	0.13		0.05
74.80	MINIMUM	29.45	*7 00	MINIMUM	30.31
	MAXIMUM			MAXIMIM	
		33133	33.20	PEALMAN	33.00
COEFF. OF	VARIATION	3.3%	COEFF. OF	VARIATION	4.5%
SYMETRY—		0.47	SYMMFTRY—		0.19
KURITEIS-	VETA II	3.18		VETA II	2.99
MARKET OF	~~~~				
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
,					
P	ERCENTILES	;	1	PERCENTILES	
CENTIMETE	rs	INCHES	CENTIMET		INCHES
75.73	1ST	29.81	78.54	1ST	30.92
75.92	2ND	29.89	78.95	2ND	31.08
76.13	3RD	29.97	79.35	3RD	31.24
76,50	5TH	30.12	80.04		
77.22	10TH	30.40	81.33		
77.78	15TH	30.62	82.30		
78.25	20TH	30.81	83.08		
78.67	25TH		83.77	20111	32.71 32.98
79.05	301H	31.12	84.39	2011	32.98
79.41	35TH	31.26	04.39	30TH	33.22
79.75	401H	31.40	84.95		33.45
80.09	401h 45TH		85.48		
		31.53	85.99		
80.42	50TH	31.66	86.48	50TH	
80.76	55TH	31.79	86.97		31.24
81.10	60TH		87.45		34.43
81.45	65TH	32.07	87.94	65TH	34.62
81.83	79TH	32.22	88.46	70TH	34.83
82.24	75TH	32.38	89.01	75TH	35.04
82.72	HTOS	32.57	89.64	HIOS	35.29
83.28	85TH	32.79	90.36		
84.03	90TH	33.08	91.32	90TH	35.95
85.25	95TH	33.56	92.90	95TH	36.57
J6.14	97TH	33.91	94.07		
86.85	98TH	34.19	95.04		
88.12	99TH	34.69			37.42
00+12	22111	34.03	96.80	99TH	38.11

(D24) INCEX FINGER REACH, EXTENDED

The horizontal distance between the vertical plane of the back and the tip of the right index finger of a subject standing erect with the left shoulder against a wall and the right shoulder, arm, hard, and fingers extended forward horizontally as far as possible is calculated as follows: WRIST-WALL LENGTH, EXTENDED plus WRIST-INDEX FINGER LENGTH.

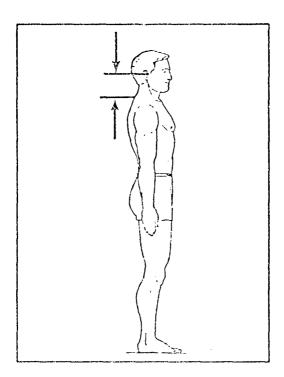


VARIABLE NO. (D24)—INDEX FINCER REACH, EXTENDED FEMALES MALES

THE SUMM	ARY STAT			THE SUI	Mary Stat	TSTICS
CENTIMETERS	5	INCHES	(CENTIMETI		INCHES
86.70	MEAN	34.13		92 04	MEAN	26.24
0.15 8	E (MFAN)	0.06		22.04	THE AM	36.24
275	CALL ADAMA			0.18	SE (MEAN)	
0 11	SE/SD/	1.08 0.04			ST DEV	
0.11	DE (DD)	0.04		0.13	SE(SD)	0.05
81.20 M				82.20	MINIMUM	32.36
98.70 M	MUMIXA	38.86			MAXIMUM	
COEFF. OF VA	RIATION	3.2%	α	EFF. OF	VARIATION	' A 29
SYMMETRY			SV	MMFTDV	VETA I	4.36
KURTOSIS	VETA II	3.82	יוט עו	DWYCTC	VETA JI	0.26
			I.C.	W10272	VEIA J.I	3.14
NUMBER OF SU	BJECTS	334	NU	MBER OF	SUBJECTS	487
PER	CENTILES	s				
CENTIMETERS		INCHES	_		ERCENTILE	5
		エルベルシン	C	ENTIMETE	RS	INCHES
81.56	1ST	32.11		83.34	1ST	32.81
81.73	2ND			84.18		33.14
81.95	3RD	32.26		84.75	3RD	33.37
82.36	5TH	32.43		85.58	5TH	
83.16	10TH			36.92		33.69
83.78	15TH	32.99			10TH	
84.30	20TH			87.86	15TH	34.59
84.75		33.37		88.61	20TH	
85.16	30TH	33.53		89.27	25TH	35.14
85.53				89.86	30TH	35.38
85.89		33.68		90.40	35TH	35.59
	40TH	33.82		90.92	40TH	35.80
86.23		33.95		91.42	45TH	35.99
86.57	50TH	34.08		91.92	50TH	36.19
86.90	55TH	34.21		92.42	55TH	
87.24	60IH	34.34		92.92	60TH	36.58
87.58	65TH	34.48		93.45	65TH	35.79
87.94	70TH	34.62		94.01	70TH	
88.34	75TH	34.78		94.62		37.01
88.79	80TH	34.96			75TH	37.25
89.33	85TH	35.17		95.30	80TH	37.52
	90TH	35.46		96.12	85TH	37.84
		35.94		97.18	901H	38.26
92.23	97TH			98.34	95TH	38.91
		36.31		99.99	97TH	39.37
		36.62		100,90	98TH	39.72
94.46	99TH	37.19		102.42	99TH	40.32
					-	

(D25) NECK LINK

The vertical distance between the cervicale landmark at the base of the back of the neck and the tragion landmark on the cartilaginous flap of flesh in front of the earhole is calculated as follows: STATUPE minus TRAGION-TOP OF HEAD minus CERVICALE HEIGHT.



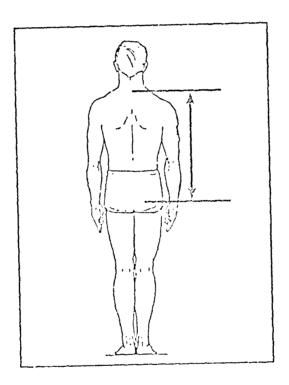
VARIABLE NO. (D25)—NECK LINE

FEMALES

THE SIM	MARY STATI	ाटाग <i>्</i> ट	THE CHARLEST CHARLEST CO.
CENTIMETA			THE SUMMARY STATISTICS
CENTIMET	200	INCHES	CENTIMETERS INCHES
10.01	3.5773.34		
10.21	MEAN	4.02	10.88 MEAN 4.28
0.06	SE (MEAN)	0.02	0.05 SE(MFAN) 0.02
1.03	ST DEV	0.41	1.10 ST DEV 0.43
0.04	SE(SD)	0.02	
	(/	0.02	0.04 SE(SD) 0.01
7.10	MINIMUM	2.80	7.10 MINIMUM 2.80
13.30	MAXIMUM	5.24	
		0.64	14.60 MAXIMUM 5.75
COEFF. OF	VARIATION	10.1%	COEFF. OF VARIATION 10.1%
SYMMETRY-	VETA I	0.06	SYMMETRY—VETA I 0.05
KURTOSIS	VETA TT	2.86	KURTOSIS—VETA II 3.21
	·	2.00	WRIGHTS VETA II 3.21
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS 483
			Horiziat of Sometic 403
P	ERCENTILES	;	PERCENTILES
CENTIMETE	RS	INCHES	CENTIMETERS INCHES
			Little)
7.93	1ST	3.12	8.21 1ST 3.23
8.17	211D	3.21	
8.32	סתה	3.28	
8.53			8.82 3RD 3.47
	5TH	3.36	9.11 5TH 3.59
8.88	101H	3.49	9.51 10TH 3.74
9.12	15TH	3.59	9.77 15TH 3.85
9.31	20TH	3.67	9.97 20TH 3.92
9.48	25TH	3.73	10.14 25TH 3.99
9.64	30TH	3.80	
9.79	35TH	3.85	
9.92			10.44 35TH 4.11
	40TH	3.91	10.58 40TH 4.17
10.06	45TH	3.96	10.71 45TH 4.22
10.20	50TH	4.01	10.85 50TH 4.27
10.33	55TH	4.07	10.99 55TH 4.33
10.47	60TH	4.12	11.13 60TH 4.38
19.61	65TH	4.18	
10.76		4.24	
			11.43 70TH 4.50
10.93	75TH	4.30	11.61 75TH 4.57
11.11	80TH	4.37	11. 80 80TH 4.65
11.32	85TH	4.46	12.03 85TH 4.74
11.58	90 1 H	4.56	12.32 90TH 4.85
11.94	95TH	4.70	12.73 95TH 5.01
12.17	97TH	4.79	12.00 00001
12.33	98TH		12.98 97TH 5.11
			13.16 98TH 5.18
12.56	99TH	4.94	13.41 99TH 5.28

(D26) NECK-PUTTOCK LENGTH

The vertical distance between the cervicale landwark at the base of the back of the neck and the level of the maximum protrusion of the right buttock is calculated as follows: CERVICALE HEIGHT minus EVITOCK HEIGHT.



VARIABLE NO. (D26) -- NECK-HUTTOCK LENGTH

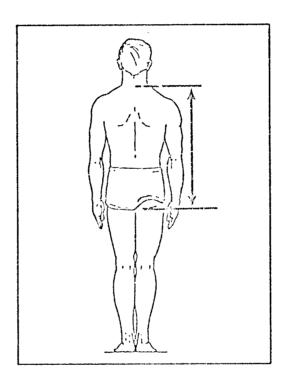
FEMALES

MALES

THE SUM	Mary Stati	STICS INCHES	THE SUMMARY CENTIMETERS	Y STATISTICS INCHES
OLA 14.11.11.11.11.				
59.62				MEAN 25.46
	SE (MEAN)	0.06		(MEAN) 0.05
2.62	ST DEV	1.03	2.98 S	r DEV 1.17
0.10	SE(SD)	0.04	0.1 0 S	E(SD) 0.04
	MUNIMUM			NIMUM 21.26
67.30	MUMIXAM	26.50	75.10 MA	XIMUM 29.57
COEFF. OF			COEFF. OF VAR	
SYMETRY-	VETA I	-0.03	SYMMETRYV	ETA I -0.11
KURTOSIS	VETA II	3.00	KURTOSISV	ETA II 3.20
NUMBER OF	SUBJECTS	334	NUMBER OF SUR	JECTS 487
F	ERCENTILES	;	PERC	ENTILES
CENTIMETE		INCHES	CENTIMETERS	INCHES
53.46	1ST	21.05	57.38	1ST 22.59
54.23	2ND	21.35	58.34	2ND 22.97
54.71	3RD	21.54	58.93	3RD 23.20
55.34	5TH	21.79	59.70	5TH 23.50
56.29	10TH		60.84	10TH 23.95
		22.41	61.60	
56.93	15TH			
57.44	20TH		62.19	20111 24.48
57.87	25TH		62.70	25TH 24.68
58.26	30TH		63.15	30TH 24.86
58.62	35TH	23.08	63.57	35TH 25.03
58.97	401H	23.22	63.96	40TH 25.13
59.30	45TH	23.35	64.35	45TH 25.33
59.63	50TH	23.48	64.72	50TH 25.48
59.97	55TH	23.61	65.10	557H 25.63
60.30	601H	23.74	65.48	60TH 25.78
60.65	65TH		65.87	65TH 25.93
61.02	70TH	24.02	66.28	70TH 26.10
61.42	75TH	24.18	66.72	75TH 26.27
61.86	HT08		67.21	80TH 26.46
62.37	85TH	24.56	67.77	85TH 26.68
63.01	90 1 H	24.81	68.46	90TH 26.95
63.92	95TH	25.17	69.42	95TH 27.33
64.49	97TH		70.00	97TH 27.56
64.83	98TH	25.54	70,40	98TH 27.71
65.46	99TH	25.77	70.95	99TH 27.93
00.40	77111	43.11	70.55	991A 27.93

(E:7) NECK-GLULIAL FURECH LENGTH

The vertical distance between the cervicale landmark at the base of the back of the neck and the gluteal furrow landmark at the juncture of the right buttock with the back of the thigh is calculated as follows: CERVICALE HEIGHT minus GLUTFAL FURFOW HEIGHT.



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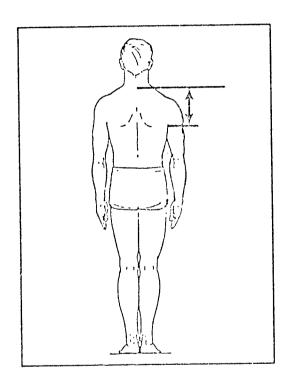
VARIABLE NO. (D27) -- NECK-GLUTEAL FURNCW LEAGH

FEMALES

THE SUM	Mary Stati	STICS	THE SUMMARY STATE	STICS
CENTIMETE	PS .	INCHES	CENTIMETERS	INCHES
C0 00	LODBAT	22.16	77 A4 347737	20 22
68.98			71.81 MEAN	
	SE (MEAN) ST DEV		0.14 SE(NEAN)	
		1.04	3.02 ST DEV	
0.10	SE(SD)	0.04	0.10 SE(SD)	0.04
61.80	MINIMIM	24.33	61.20 MINIMUM	24.09
	MAXIMIM		81.30 MAXIMIM	
	VARIATION		coeff. of variation	
SYMETRY—		0.07	SYMPTRY—VEVA I	-0.03
KURICSIS-	—VETA II	2.91	KURTOSIS—VETA II	3.11
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS	487
F	ERCENTILES	:	PERCENTILES	
CENTIMETE		INCHES		INCHES
63.03	1ST	24.82	64.84 1ST	25.53
63.71	2ND	25.08	65.71 2ND	25.87
64.14	3RD	25.25	66.24 3RD	26.08
64.73	5TH	25.48	66.95 5TH	26.36
65, 64	101H	25.84	68.01 10TH	26.78
66.27	15TH		68.73 15TH	
66.77	201H	26.29	69.29 20IH	27.28
67.20	25TH	26.46		
67.59	301H	26.61	69.78 25TH 70.23 30TH	27.65
67.95		26.75	70.63 35TH	27.81
68.29	401H	26.89	71.03 40TH	27.96
68.62	45TH		71.41 45TH	
68.96	50TH	27.15	71.79 50TH	
69.29	55TH		72.17 55TH	
69.63	60TH	27.41	72.56 6079	28 57
69.98	65TH	27.55	72.96 65TH	28.72
70.35	70TH		73.39 707H	28.89
70.76	751H		73.86 75TH	29.08
71.22	HTOS	28.04	73.86 75Hi	
71.75	851H	28.25		
				29.52
72.42		28.51	75.75 90TH	
73.44	951H 971H	28.91	76.87 95TH	30.26
74.10			77.58 97TH	30.54
74.60		29.37	78.09 98TH	
75.38	99TH	29.68	78. 86 991H	31.05

(D28) NECK-SCYE LENGTH

The vertical distance between the cervicale landmark at the base of the back of the neck and the anterior scye landmark at the bottom of the axillary fold is calculated as follows: CERVICALE HEIGHT minus AXILLA HEIGHT.



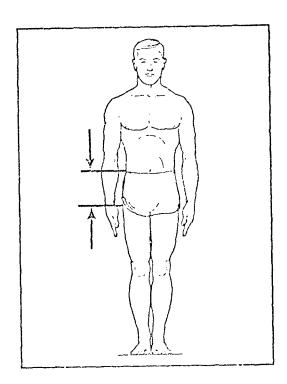
VARIABLE NO. (D28) -- NECK-SCYE LENGTH

FEMALES

			·		
THE SUM CENTIMETER	vary statis	F.ICS INCHES	THE SUR CENTIMETE	Mary Stati: IRS	STICS INCHES
10.01	3.6773.37	7 00	10.00	2577337	7.06
18.01			19.96		
	SE (MEAN)	0.03		SE (MEAN)	0.02
	ST DEV	0.50	1.30		0.51
0.05	SE(SD)	0.02	0.04	SE(SD)	0.02
	MUNIMUM	5.75	16.10	MINIMUM	
21.20	MUMIXAM	8.35	23.50	MAXIMUM	9.25
COEFF. OF V	VARIATION	7.0%	COEFF. OF	VARIATION	6.5%
SYMMETRY-		0.09		VETA I	
KURIOSIS		2.70		VETA II	
NUMBER OF S	SUBJECTS	334	NUMBER OF	SUBJECTS	487
-					
	ERCENTILES			PERCENTILES	
CENTIMETE	KS .	INCHES	CENTIMET	£RS .	INCHES
15.32	1ST	6.03	17.01	1ST	6.70
15.57	2ND	6.13	17.33	2ND	6.82
15.75	3RD	6.20	17.54	3RD	6.91
15.99	STH	6.30	17.83	5TH	7.02
16.40	10TH	6.46	18.29	101H	7.20
16.68	15TH	6.57	18.61		
16.92	20TH	6.66	18.86		7.42
17.13	25TH	6.74	19.08		7.51
17.31	30TH	6.82	19.27		
17.49	35TH	6.89	19.45		7.66
17.66	40TH	6.95	19.63		
17.82		7.02	19.79		7.79
	45TH				
17.99	50TH	7.08	19.96		7.86
18.15	55TH	7.15	20.10	55TH	7.92
18.32	60TH	7.21	20.29		7.99
18.49	65TH	7.28	20.46		8.06
18.68	70TH	7.35	20.64	701H	8.13
18.88	75TH	7.43	20,84	75TH	8.21
19.10	HI08	7.52	21.06	HT08	8.29
19.36	85 TH	7.62	21.31	85'IH	8.39
19.68	90TH	7.75	21.63		8.52
20.15	95TH	7.93	22.11		8.70
20.45	97TH	8.05	22.41		8.82
20.43	98TH	8.14	22.64		8.91
21.01	99TH	8.27	22.99		
21.01	23311	0.41	22.99	22111	9.00

(D29) FEIVIC LIEK

The vertical distance between the iliocristale landmark on the right side of the pelvis and the level of the trochanterion landmark on the right hip is calculated as follows: ILIOCRISTALE HEIGHT minus TRXCHANNERION HEIGHT.



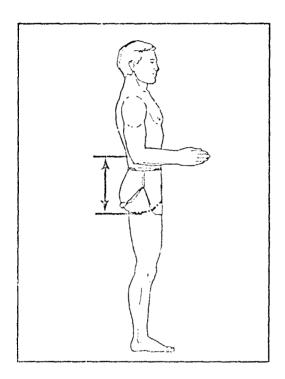
VARIABLE NO. (1229)—PELVIC LINK

FEMALES

mur en	aranir coma con	r come on		
THE SUP	MARY STAT		THE SUMMARY STAT	ISTICS
CENTIMETE	26S	INCHES	CEMITMETERS	INCHES
	MEAN	5.44	15.45 MEAN	6.08
0.08	SE (MEAN)	0.03	0.06 SE(MEAN)	
1.39	ST DEV	0.55	1.37 ST DEV	0.54
0.05	SE(SD)	0.02	0.04 SE(SD)	0.02
			0.04 511(55)	0.02
9.60	MINIMUM	3.78	12.20 MINIMUM	4 00
	MAXIMIM	7.13		
			20.40 MAXIMUM	8.03
COEFF. OF	VARIATICN	10.1%	COEFF. OF VARIATION	8.9%
SYMMETRY-	VETA I	0.04		
KURTOSIS	VETA II	3.35	SYMMETRY——VETA I KURTOSIS——VETA II	
			VOICEOTS——VEIA II	2.91
NUMBER OF	SUBTECTS	334	ATTENDED OF COMMENT	
		234	NUMBER OF SUBJECTS	487
	······································			
P	ERCENTILES		PERCENTILES	1
CENTIMETE		INCHES		
			CENTIPETERS	INCHES
10.29	1 <i>s</i> T	4.05	12.41 1ST	
10.84	2ND	4.27		4.89
11.16	3RD	4.40	12.73 2ND	5.01
11.56	5TH	4.55	12.94 3RD	5.09
12.11	10111	4.77	13.23 5TH	5.21
12.45			13.69 10TH	5.39
12.45	1577	4.90	14.01 15TH	5.51
	20TH	5.00	14.26 20TH	5.62
12.92	25TH	5.09	14.49 25TH	5.70
13.11	30TH	5.16	14.69 30TH	5.78
13.29	35TH	5.23	14.88 35TH	5.86
13.46	40TH	5.30	15.06 40TH	5,93
13.62	45TH	5.36	15.24 45TH	6.00
13.78	50TH	5.43	15.41 50TH	6.07
13.94	55TH	5.49	15.59 55TH	
14.11	60TH	5.56		6.14
14.29	65TH	5.63		6.21
14.48	70TH	5.70		6.28
14.69	75TH	5.78	16.15 70TH	6.36
14.93	80TH		16.36 75TH	6.44
15.21		5.88	16.60 80TH	6.54
	85'IH	5.99	16.88 851H	6.65
15.58	90TH	6.14	17.24 90TH	6.79
16.15	95TH	6.36	17.77 95TH	6.99
16.54	97TH	6.51	18.11 97TH	7.13
16.82	98TH	6.62	18.36 98TH	7.23
17.27	99TH	6.80	18.76 99TH	7.23
			-01.0	1.07

(D30) RISE (MATURAL INTENTIALIO)

The vertical distance between the level of the waist at its natural indentation and the crotch of a subject standing erect is calculated as follows: WAIST HEIGHT (NATURAL INDENTATION) minus CROTCH HEIGHT.



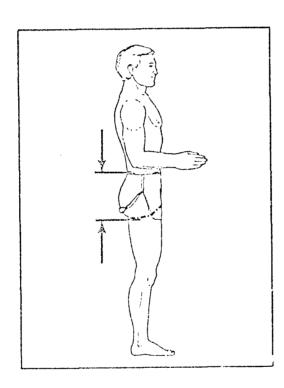
VARIABLE NO. (D30) -RISE (NATURAL INDENTATION)

FEMALES

THE SUN CENTIMET	mary stati Ers	ISTICS INCHES	THE SUM CENTIMETE	imary stati RS	STICS INCHES
29.59	MEAN	11.65	28.97	MEAN	11.40
2 30	SE (MEAN) ST DEV	0.03	1 90	SE (MEAN) ST DEV	0.05
0.00	SE (SD)	0.04	0.06		0.73
0.09	SE (SU)	0.04	0.00	ລະ(ວນ)	0.02
22.50	MINIMUM	3.86	22.00	MUMINIM	8.66
36.60	MUMIXAM	14.41	35.20	MAXIMUM	13.86
COEFF. OF	VARIATION	8.1%	COEFF. OF	VARIATION	6.6%
SYMMETRY-	VETA I	0.03	SYMMETRY		
	VETA II	2.95	KURTOSIS	VETA II	
NUMBER OF	SURJECTS	334	NUMBER OF	SUBJECTS	487
1	PERCENTILES	3	Ţ	PERCENTILES	3
CENTIMET		INCHES	CENTIMETE		INCHES
23.93	157	9.42	24.33	150	9.58
24.78	2ND	9.75	24.99	2ND	
25.25		9.94	25.39		9.99
25.84			25.90		
26.67	5TH 10TH	10.50	26.63		10.48
27.19	15TH		27.09		
27.61	20TH	10.87	27.45	20TH	10.81
27.97		11.01	27.76		
28.29					
28.60	30TH 35TH	11.26	28.03 28.27	30TH 35TH	11.13
28.90	40TH	11.38	28.51	40TH	
29.20	45TH	11.50	28.73	451H	
29.50	50TH	11.61	28.96		
29.80	55TH	11.73	29.18		
	60TH	11.73	29.41	55TH 60TH	11.58
30.12	65TH				
30.45		11.99 12.13	29.65	65TH	11.67 11.77
30.81	70TH 75TH		29.90	70TH	
31.20		12.28 12.46	30.18	75TH	
31.64	HT08		30.50	SOTH	12.01
32.14	85TH	12.66	30.87		12.15
32.77	90111	12.90	31.36	90111	12.35
33.64	95TH	13.25	32.10		
34.13		13.44	32.60	97TH	
34.44	98TH	13.56	32.98	98 TH 99TH	12.99
34.81	99TH	13.71	33. 59	99TH	13.22

(DS1) RISE (CIFEELICE)

The vertical distance between the level of the waist at the navel (comphalicn) and the crotch of a subject standing erect is calculated as follows: WAIST HEIGHT (CMSHALICN) minus CROTCH HEIGHT



VARIABLE NO. (D31) -RICE (CNIPHALICN)

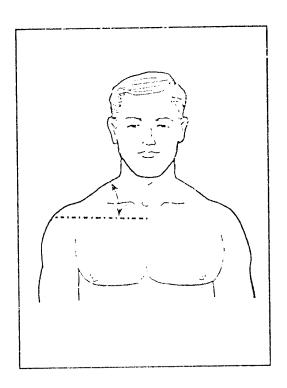
FEMALES

Males

THE SUMMA	מע כייוע	t CYTT CC	n 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		TOUR CONTENTS	rom rom
CENTIMETERS			'IM	e summa	RY STATI	_
CEMITTIE, LEND		INCHES	CENT.	IMETERS		INCHES
22.11	MEAN	8.70	2:	2.32	MEAN	8.79
0.09 S					E (MEAN)	
1.72		0.68			ST DEV	
0.07	SE(SD)	0.03			SE(SD)	0.02
	00(00)	0.03	•	0.03	DE(DD)	0.02
16.80 M			10	6.40 M	MUMINI	6.46
27.60 M	MUMIKA	10.87	2	7.60 M	MUMIXA	10.87
COEFF. OF VA	RIATION	7.8%	COEFF	. OF VA	RIATION	7.4%
SYMMETRY		-0.18	SYME	IRY	VETA I	-0.04
KURTOSIS	VETA II	3.17	KURTO	SIS	VETA II	3.37
NUMBER OF SUI	BJECTS	334	NUMBE	R OF SU	BJECTS	487
				· · · · · · · · · · · · · · · · · · ·		
PER	ŒWILES	5		PER	CENTILES	:
CENTIMETERS		INCHES	CENT	IMETEL'S		INCHES
17.57	1ST	6.92	18	3.36	1ST	7.23
18.18	2ND	7.16	18	8.85	2ND	
18.56	3RD	7.31	19	9.16	3RD	7.54
19.07	57 H	7.51	19	9.58	5TH	7.71
19.82	10TH	7.80		0.23	10TH	7.96
20.31	15TH	8.00	20	0.65	15'IH	8.13
20.69	201H	8.14	20	0.98	20TH	8.26
21.00	25TH	9.27		1.26	25TH	8.37
21.28	30TH	8.38		1.51	30TH	8.47
21.53	35TH	8.48		1.73	35TH	8.56
21.76	40TH	8.57		1.94	40TH	8.64
21.98	45TH	8.66		2.14	45TH	8.72
22.20	50TH	8.74		2.34	50TH	8.79
22.41	55TH	8.82		2.53	55TH	8.87
22.62	60TH	8.91		2.73		
22.84	65TH	8.99		2.93	6011i	8.95
23.06	701H	9.08			65TH	9.03
				3.14	70TH	9.11
23.30	75TH	9.17		3.37	75TH	9.20
23.56	HTO8	9.27		3.64	801H	9.31
23.86	85TH	9.39		3.95	85TH	9.43
24.23	90TH	9.54		1.36	90TH	9.59
24.77	95TH	9.75		5.02	95TH	9.85
25.12	97TH	9.89	25	5.50	97TH	10.04
25.38	98 TH	9.99	25	5.88	98TH	10.19
25.79	99TH	10.15	26	5.55	99TH	10.45

(DB2) SIGULDER SLOPE

The degree of the slope of the right shoulder of a subject standing erect with the arms relaxed at the sides is calculated as follows: Arcsin of the quotient: (MECK HELGAT, LATERAL minus ACROMIAL HELGAT) divided by SHOULDER LENGTH.



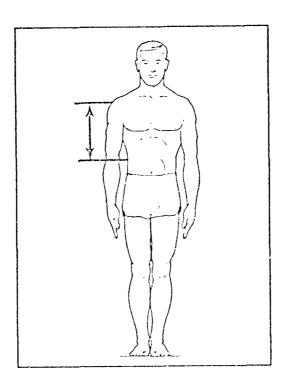
VARIABLE NO. (D32) - SHOULDER SLOPE

FEMALES

	······································			· · · · · · · · · · · · · · · · · · ·
ווצחה ביים	MANTO CHONETE	CIII	erre can	MADY CONTOCOTOC
	Mary Stati		******	MARY STATISTICS
DEGREES	; k	ADIANS	DEGREES	RADIANS
25.78	MEAN	0.45	26.36	MEAN 0.46
0.08	SE (MEAN)	0.00	0.09	SE(MEAN) 0.00
	ST DEV	0.07	4.01	ST DEV 0.07
0.06	SE(SD)	0.00	0.07	SE(SD) 0.00
14.00	MINIMUM	0.26	17 10	MINIMUM 0.30
36.67	MUMIXAM	0.64	36.10	MAXIMUM 0.63
COEFF. OF	VARIATION	15.7%	COEFF. OF	VARIATION 14.2%
SYMMETRY	VETA I	-0.05		VETA I 0.03
KURTOSIS	VETA II	2.98	KURTOSIS	
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS 487
F	PERCENTILES	;	I	PERCENTILES
DEGREE	es r	ADIANS	DEGREES	RADIANS
15 50	1 000		4.5.50	1077 01
15.58		.27	17.59	1ST .31
16.79		.29	18.45	
17.76	3RD	.31	19.02	
18.91		.33	19.82	
20.05	1011I	.35	21.14	
21.20	15TH	.37	22.06	
22.35	20TH	.39	22.80	20TH .40
22.92	25TH	.40	23.49	25TH .41
23.55	30TH	.41	24.06	30TH .42
24.12	35 TH	.42	24.58	35TH .43
24.64	40TH	.43	25.10	40TH .44
25.15	45TH	.44	25.55	45TH .45
25.61	50TH	.45	26.36	50TH .46
26.13	55'IH	.46	26.53	55TH .46
26.59	60TH	.46	27.04	60TH .47
27.10	65TH	.47	27.50	
27.62	70TH	.48	28.07	
28.13	75TH	.49	28.59	75TH .50
28.76	HT08	.50	29.22	80TH .51
29.51	85TH	.52	29.97	
30.42	90TH	.53	30.88	
31.91	95TH	.56	32.20	
33.C)	97TH	.58		
			33.06	
33.80	98TH	•59	33.69	98TH .59
35.24	99TH	.62	34.72	99TH .61

(D33) SHULLET-VALST LETURA (MEGURAL DELEVENTION)

The vertical distance between the acromicn larchmark on the tip of the right shoulder and the level of the waist at its natural indentation of a subject standing erect is calculated as follows: ACTOMIAL HEIGHT minus WAIST HEIGHT (NATURAL INDEPTRATION)



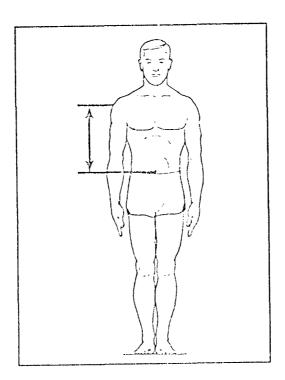
VARIABLE NO. (DO3) - SHOULDER-WALST LENGTH (NATURAL INDENTATION)

FEMALES

THE SID	MARY STATI	STTCS	THE SUMMARY STATT	STTCS
CENTIMET		INCHES	CENTIMETERS	INCHES
		2310220	Angeling A sp. 107.2 spring of spring April	221022
28.98	MEAN	11.41	32.31 MEAN	12.72
	SE (MEAN)	9.05	0.10 SE(MEAN)	
2.26	ST DEV	0.89	2.10 ST DEV	
0.09	SE(SD)	0.03	0.07 SE(SD)	0.03
22.40	MUNIMUM	9.21	26 40 MINITERIA	10.39
23.40			26.40 MINIMUM	
37.00	MUMIXAM	14.57	38.70 MAXIMIM	15.24
COFFE OF	VARIATION	7.8%	COEFF. OF VARIATION	6.5%
SYMMETRY-	VETA I	0.52	SYMMETRY—VETA I	
	VETA II	3.52	KURTOSIS——VETA II	
MIKIWI3	VEAR II	3.52	roktosisveta ii	2.60
NUMBER OF	STIBITECTS	334	NUMBER OF SUBJECTS	487
HOPIDEM OF	Bobbleto	334	HOWALLY OF BOLDINGED	407
	······································			
]	PERCENTILES	3	PERCENTILES	3
CENTIMET		INCHES	CENTIMETERS	INCHES
24.48	1ST	9.64	27.58 1 <i>S</i> T	10.86
24.86	2ND	9.79	28.09 2ND	11.06
25.13	3RD	9.90	28.42 3RD	
25.53	5TH	10.05	28.87 5TH	
26.20	10TH	10.32	29.60 10TH	
26.68	15TH	10.50	30.10 15TH	
27.06	20TH	10.65	30.50 20TH	
27.40		10.79	30.85 25TH	12.15
27.71	30TH	10.91	31.17 30IH	12.27
27.99	35TH	11.02	31.47 35TH	12.39
28.27	40TH	11.13		12.59
28.27	45TH	11.13		
			32.02 45TH	
28.81	50TH	11.34	32.29 50TH	12.71
29.08	55'IH	11.45	32.57 55TH	
29.36	60TH	11.56	32.84 60TH	
29.66	65TH	11.68	33.13 65TH	13.04
29.98	70TH	11.80	33.43 70TH	
30.33	75TH	11.94	33.76 75TH	13.29
30.74	HTO8	12.10	34.12 80TH	
31.24	85TH	12.30	34.54 85TH	13.60
31.91	90TH	12.56	35.07 90TH	13.81
33.01	95TH	13.00	35.84 95TH	14.11
33.82	97TH	13.32	36.33 97TH	14.30
34.47	98TH	13.57	36.68 98TH	
35.60	99TH	14.02	37.23 99TH	14.66

(134) SHOULDER-WALST LENGTH (CHETALICH)

The vertical distance between the acromic landmark on the tip of the right shoulder and the level of the waist at the navel (cmphalicn) of a subject standing erect is calculated as follows: ACROMIAL HEIGHT minus WAIST HEIGHT (CMEMALICN).



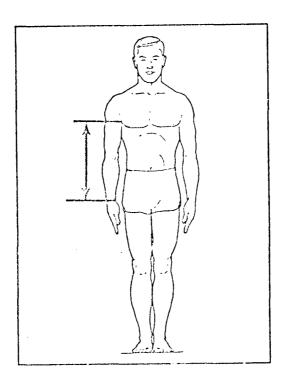
VARIABLE NO. (D34) -- SHOULDER-WALST LENGTH (CMPHALION)

FEMALES

THE SUMMARY STA	TISTICS INCHES	THE SUMMARY STATISTICS CENTIMETERS INCHES
		THUES
36.46 MEAN	14.35	38.96 MEAN 15.34
0.12 SE(MEAN		0.11 SE(MEAN) 0.04
2.15 ST DEV		2.40 ST DEV 0.94
0.08 SE(SD)	0.03	0.08 SE(SD) 0.03
31.00 MINIMUM		31.30 MINIMUM 12.32
44.20 MAXIMUM	17.40	46.10 MAXIMUM 18.15
COEFF. OF VARIATION		∞EFF. OF VARIATION 6.2%
	0.18	SYMMETRYVETA I 0.11
KURTOSISVETA I	3.25	KUKTCSIS—VETA II 2.87
NUMBER OF SUBJECTS	334	NUMBER OF SUBJECTS 487
PERCENTIL		PERCENTILES
CENTIMETERS	INCHES	CENTIMETERS INCHES
31.42 1ST	12.37	33.66 1ST 13.25
32.10 2ND	12.64	34.28 2ND 13.50
32.50 3RD	12.80	34.66 3RD 13.65
33.02 5TH	13.00	35.18 5TH 13.85
33.79 10TH	1.3.30	35.96 10TH 14.16
34.29 15TH	13.50	
34.68 20TH	13.65	
35.01 25TH	13.79	
35.32 30TH	13.79	37.30 25TH 14.68
35.60 35TH	14.02	37.64 30TH 14.82
35.87 40TH		37.96 35TH 14.95
	14.12	38.27 40TH 15.07
	14.23	38.57 45TH 15.19
36.39 50TH		38.88 50TH 15.31
36.66 55TH		39.18 55TH 15.43
36.93 60TH	14.54	39.50 60TH 15.55
37.21 65TH	14.65	39.82 65TH 15.68
37.52 70TH	14.77	40.17 70TH 15.82
37.85 75TH	14.90	
38.22 80TH	15.05	
38.66 85TH	15.22	40.99 80TH 16.14
39.21 90TH		41.48 85TH 16.33
	15.44	42.12 90TH 16.58
	15.76	43.03 951H 16.94
40.55 97TH	15.96	43.61 97TH 17.17
40.92 98TH	16.11	44.02 98TH 17.33
41.48 99TH	16.33	

(D35) SLEEVE INSERN

The vertical distance between the right anterior-scye-on-the-torso landmark and the stylion landmark on the right wrist of a subject standing erect with the arms straight at the sides is calculated as follows: AXILIA HEIGHT minus WRIST HEIGHT.



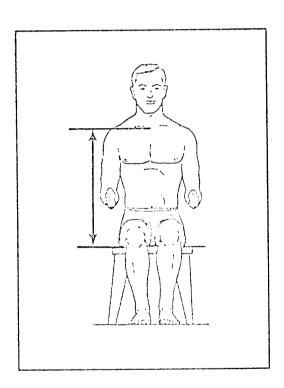
VARIABLE NO. (D35)—SLEEVE INSEAM

FEMALES

	Mary Stati			MARY STATI	
CENTIMETE	RS	INCHES	CENTIMET	RS	INCHES
45.32	MEAN	17.84	47.51	MEAN	18.70
0.11	SE (MEAN)	0.04	0.13	SE (MEAN)	0.05
	ST DEV	0.81	2.83	ST DEV	1.11
0.08	SE (SD)	0.03	0.09	SE (SD)	0.04
	MINIMUM		39.80		
53.70	MAXIMUM	21.14	54.70	MAXIMUM	21.54
COEFF. OF	VARIATION	4.5%	COEFF. OF	VARIATION	6.0%
SYMMETRY	-VETA I	0.39	Symmetry	VETA I	0.00
KURIOSIS	VETA II	3.99	KURTOSIS-	VETA II	2.77
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
F	ERCENTILES	3	· -	PERCENTILES	5
CENTIMETE	rs .	INCHES	CENTIMETE		INCHES
40.81	1ST	16.07	40.78	1ST	16.05
41.53	2ND	16.35	41.68	2ND	16.41
41.92	3RD	16.50	42.21	3RD	16.62
42.38	5TH	16.68	42.90	5TH	
42.99	10TH	16.93	43.90		17.28
43.37	15TH	17.07	44.56		
43.67	20TH	17.19	45.09	20TH	17.75
43.93	25TH	17.29	45.54	25TH	17.93
44.17	301H	17.39	45.96	30TH	18.09
44.40	35'TH	17.48	46.34		
44.63	40TH	17.57	46.71	40TH	18.39
44.86	45TH	17.66	47.08	45TH	18.53
45.10	50TH	17.76	47.44	50TH	18.68
45.35	55TH	17.86	47.81	55T H	18.82
45.62	60TH	17.96	48.19		
45.90	65TH	18.07	48.58	65TH	19.13
46.21	701H	18.19	49.00	70TH	19.29
46.57	75TH	18.33	49.46	75TH	19.47
46.97	HT08	18.49	49.97	HI08	19.67
47.46	85TH	18.68	50.55	85TH	19.90
48.09	90TH	18.93	51.28	90TH	
49.02	95TH	19.30	52.28	95TH	20.58
49.59	97TH	19.53	52.87	97TH	
49.99	98TH	19.68	53.25	98TH	
50.53	99TH	19.89	53.75	99TH	21.16
			- · · · · -		

(D36) SUPRASTERVALE HEIGHT, STITLIG

The vertical distance between a sitting surface and the suprasternale landmark on the lowest point of the notch at the top of the breastbone of a subject sitting erect is calculated as follows: SUFRASTERNALE HEIGHT minus (STATURE minus SITTING HEIGHT).



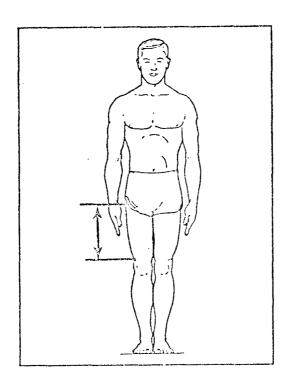
VARIABLE NO. (D36) - SUFRASTERNALE HEIGHT, SITTING

FEMALES

				·		
	Mary Stati				mary stati	ISTICS
CENTIMETE	RS	INCHES		CENTIMETE	RS	INCHES
57.29	MEAN	22.55		60.73	MEAN	23.91
0.12	SE (MEAN)	0.05		0.11	SE (MEAN)	0.04
	ST DEV	0.88		2.50	ST DEV	0.98
0.09	SE(SD)	0.03		0.08	SE(SD)	
0.03	DL (DD)	0.03		0.00	לעט) בנט	0.03
50.20	MUNIMUM			50.70	MINIMUM	19.96
64.10	MAXIMUM	25.24		68.40	MAXIMUM	26.93
COEFF. OF	VARIATION	3.9%		COEFF. OF	VARIATION	4.1%
SYMMETRY-	VETA I	-0.11		SYMMETRY		
KURIOSIS-	VETA II	3.14		KURTOSIS		
NUMBER OF	SUBJECTS	334		NUMBER OF	SUBJECTS	487
			_			
F	ERCENTILES	3		I	PERCENTILES	5
CENTIMETE	rs	INCHES		CENTIMETE	TRS .	INCHES
51.99	1ST	20.47		53.85	1ST	21.20
52.63	2ND	20.72		55.06	2ND	21.68
53.04	3RD	20.88		55.72	3RD	21.94
53.59	5TH	21.10		56.53	5TH	22.26
54.43	10TH	21.43		57.61	10TH	
55.00	15TH	21.65		58.27	15TH	
55.45	20TH	21.83		58.75	201H	
55.83	25TH	21.98		59.16	25TH	
56.17		22.11		59.52	30TH	
56.48	35'TH	22.24		59.85	35TH	
56.78	4CTH			60.17	40TH	
57.06	45TH	22.47		60.47	45TH	
57 . 34		22.58		60.77	50TH	
57.62	55TH	22.68				
				61.08	55TH	
57.90	60TH	22.79		61.39	60TH	24.17
58.19	65TH	22.91		61.71	65TH	
58.49	70TH	23.03		62.06	701H	24.43
58.81	75TH	23.15		62.43	75TH	24.58
59.17	HIOS	23.30		62.85	HIOS	24.74
59.58	85TH	23.46		63.33	85TH	24.93
60.10	90TH	23.66		63.93	90TH	25.17
60.85	95TH	23.96		64.75	95TH	25.49
61.33	97TH	24.15		65.22	97TH	25.68
61.68	98TH	24.28		65.51	98TH	25.79
62.23	99TH	24.50		65.87	99TH	

(LC7) THEH LEK

The vertical distance between the trochanterion landmark on the right thigh and the lateral femoral epicondyle landmark on the right side of the knee is calculated as follows: TROCHANTERION HEIGHT minus LATERAL FEMORAL EPICONDYLE HEIGHT.



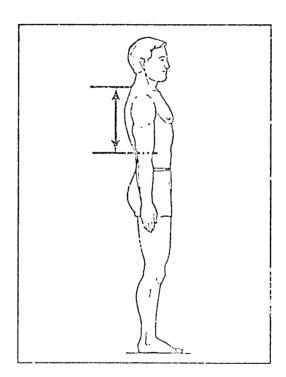
VARIABLE NO. (D37)—THICH LINK

FEMALES

THE SUMMARY STATISTICS		STICS	THE SUMMARY STAT	ISTICS		
CENTIMETE	RS	INCHES	CENTIMETERS	DICHES		
	MEAN		41.73 MEAN			
0.09	SE (MEAN)	0.04	0.10 SE(MEAN)	0.04		
1.65	ST DEV	0.65	2.25 ST DEV	0.89		
0.06	SE(SD)	0.03	0.07 SE(SD)			
			` '			
36.20	MUNIMUM	14.25	36.60 MINIMUM	14.41		
47.60	MAXITUM	18.74	48.40 MAXIMUM	19.06		
COEFF. OF			COEFF. OF VARIATION			
SYMMETRY-	VETA I	0.17	SYMMETRY——VETA I	0.33		
KURTOSIS	VETA II	3.53	KURTOSIS—VETA II	2.76		
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS	487		
FERCENTILES				ERCENTILES		
CENTIMETE	RS	INCHES	CENTIMETERS	INCHES		
26.00		44 50				
36.87	1ST		37.11 1ST			
37.54	2ND		37.62 2.ID			
37.91	3RD	14.92	37.92 3RD	14.93 15.09		
38.35	5111	15.10				
38.95	1011	15.33 15.48		15.34		
39.32			39.39 15TH			
39.60	2011		39.75 20TH			
39.84	25TH	15.69 15.77	40.08 25TH	15.78		
40.06				15.90		
40.27	351H	15.85	40.68 35TH			
40.47	40TH		40.96 40TH			
40.67	45TH	16.01	41.25 45TH			
40.87	50TH	16.09	41.54 50TH	16.36		
41.07	55TH	16.17	41.85 55TH	16.47		
41.28	60TH	16.25	42.16 60TH			
41.50	65111	16.34	42.49 65TH			
41.74	70TH	16.43	42.84 70TH			
42.01	75TH	16.54	43.24 75TH	17.02		
42.31	HIOS	16.66		17.20		
42.66	85TH 90TH	16.80	44.19 85TH			
43.11			44.84 90TH			
43.73	95TH	17.22	45.7 6 95TH			
44.10	97TH	17.36	46.30 97TH			
44.34	98TH	17.46	· 46.66 98TH			
44.65	99TH	17.58	47.14 99TH	18.56		

(D38) TEXTRAX LIDEK

The vertical distance between the cervicale landmark at the base of the back of the neck and the level of the inferior point of the right tenth rib is calculated as follows: CERVICALE MEIGHT minus TENIH RIB HEIGHT.



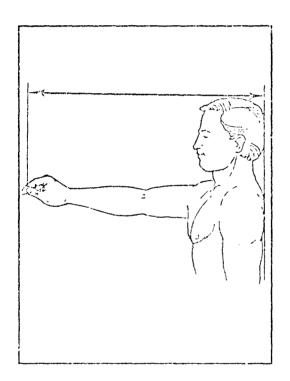
VARIABLE NO. (D38)—THERAX LINK

FEMALES

	MARY STAT			THE SUM	MARY STAT	ISTICS
CENTIMETE	RS	INCHES		CENTIMETE	RS	INCHES
38.02	MEAN	14.97		41.05	MEAN	16.16
0.10				0.10		
	ST DEV	0.74		2.10		
0.07	SE(SD)			0.07		0.83
0.07	DL (DD)	0.03		0.07	SE(SD)	0.03
	MINIMUM				MUNIMUM	
44.60	MAXIMUM	17.56		46.80	MAXIMUM	18.43
COEFF. OF	VARIATION	4.9%		COEFF. OF	VARIATION	5.1%
SYMMETRY-	VETA I	0.16		SYMMETRY-		
KURTOSIS-	VETA II	3.40		KURIOSIS		
NUMBER OF	SUBJECTS	334	1	NUMBER OF	SUBJECTS	487
מ	ERCENTILES	•	-			•
CENTIMETE		INCHES			ERCENTILES	
CIX(111111111111111111111111111111111111		Inchies		CENTIMETE	KO	NICHES
34.15	1ST	13.45		35.85	1ST	14.11
34.48	2ND	13.57		36.71	2ND	
34.72	3RD	13.67		37.19	3RD	14.64
35.07	5TH	13.81		37.76	51 H	14.86
35.67	10TH	14.04		38.52	10TH	
36.10	15TH	14.21		33.99	15TH	
36.44	20TH	14.35		39.36	20TH	
36.75	2∂TH	14.47		39.67	25TH	
37.02	30TH	14.57		39.95	30TH	
37.27	35'IH	14.67		40.22	35TH	
37.51	40TH	14.77		40.22	40TH	
37.75	45TH	14.86		40.47	45TH	
37.98	50TH	14.95			50TH	
38.21	55TH	15.04		40.99 41.25		
38.44	60TH	15.14		41.23	55TH 60TH	16.24
38.69	65TH	15.23				
38.94	70TH	15.23		41.81	65TH	16.46
39.22	75TH	15.44		42.13	70TH	16.59
39.54				42.47	75TH	
	HTO8	15.57		42.86	80111	16.87
39.92	85TH	15.71		43.31	85TH	
40.40	90TH	15.91		43.88	90TH	17.28
41.17	95TH	16.21		44.67	95TH	17.59
41.71	97TH	16.42		45.12	97TH	17.76
42.13	98'1 'H	16.59		45.41	98TH	17.88
42.85	99TH	16.87		45.76	99TH	18.01

(DG9) THURSTIP REACH, EMERITED

The horizontal distance between the vertical plane of the back and the tip of the right thurb of a subject standing erect with the left shoulder against a wall and the right shoulder, arm, and hand extended forward horizontally as far as possible with the thurb lying on the first knowle of the forefinger is calculated as follows: WRIST-WALL LEWSTH, EMPLANEL PLUSTED LEWSTH.



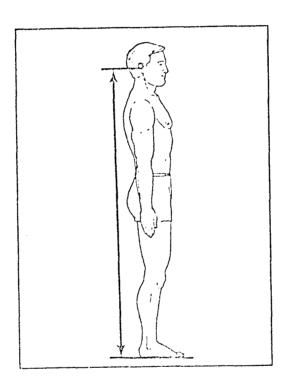
VARIABLE NO. (D39)—THEMSTIP REACH, EXTENIED

FEMALES

THE SUMARY STATISTICS CENTIMETERS INCHES 81.41
Reference
81.41 MEAN 32.05 86.34 MEAN 33.99 0.14 SE (MEAN) 0.06 0.17 SE (MEAN) 0.07 2.63 ST DEV 1.04 3.82 ST DEV 1.50 0.10 SE (SD) 0.04 0.12 SE (SD) 0.05 75.70 MINITUM 29.80 76.60 MINITUM 30.16 92.40 MAXIMUM 36.38 99.10 MAXIMUM 30.16 92.40 MAXIMUM 36.38 99.10 MAXIMUM 39.02 COEFF. OF VARIATION 3.2% COEFF. OF VARIATION 4.4% SYMMETRY—VETA 1 0.48 SYMMETRY—VETA 1 0.27 KURTOSIS—VETA 11 3.20 NUMBER OF SUBJECTS 487 PERCENTILES CENTIMETERS INCHES PERCENTILES CENTIMETERS INCHES PERCENTILES CENTIMETERS INCHES PERCENTILES CENTIMETERS INCHES <
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79.52 25TH 31.31 83.71 25TH 32.96
79.87 30TH 31.45 84.26 30TH 33.17
80.21 35TH 31.58 84.78 35TH 33.38
81.11 45TH 31.93 85.74 45TH 33.76
81.42 50TH 32.05 86.21 50TH 33.94
81.73 55TH 32.18 86.68 55TH 34.13
82.03 60TH 32.29 87.16 60TH 34.32
82.34 65TH 32.42 87.66 65TH 34.51
82.70 70TH 32.56 88.19 70TH 34.72
83.07 75TH 32.70 88.77 75TH 34.95
83.43 80TH 32.85 89.43 80TH 35.21
83.82 85TH 33.00 90.21 85TH 35.52
84.65 90TH 33.33 91.23 90TH 35.92
85.99 95TH 33.85 92.84 95TH 36.55
87.00 97TH 34.25 93.97 97TH 37.00
01.00 2111 34.62 23.31 2/10 3/.00
87.48 98TH 34.44 94.85 98TH 37.34

(D40) TRAGICN HEIGHT

The vertical distance between a standing surface and the tragion landmark on the cartilegincus flap of flesh in front of the right earhole of a subject standing erect with the head in the Frankfort plane is calculated as follows: STATURE minus TRAGICN-TOP OF HEAD.



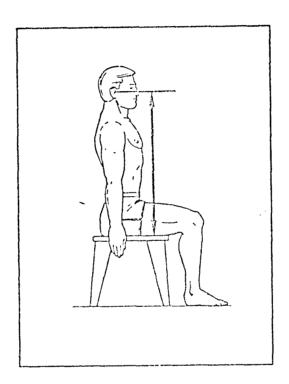
VARIABLE NO. (D40) —TRAGICN HEIGHT

T.	13	$\Delta \Delta$	T	IC

	Mary Stati		THE S	IMMARY STAT	
CENTIMETE	ers .	INCHES	CENTIME	IERS	INCHES
155.54	MEAN	61.24	164.0	2 MEAN	64.57
	SE (MEAN)		0.29		
		1.72		ST DEV	2.50
0.17	ST DEV SE(SD)	0.07	0.20	SE(SD)	0.08
012.	02(00)	0.07	3,2		0.00
	MUNIMUM		145.40	MUMINIM C	
173.90	MAXIMUM	68.46	180.70	MUMIXAM C	71.14
₩	VARIATION	2 08	COTTENT OF	F VARIATION	3.9%
SYMMETRY		0.43		VETA I	
KURIOSIS-		3.66		VETA II	
VOKTOSTS	VEIA II	3.00	KUKTUS15	VETA II	2.80
NUMBER OF	SUBJECTS	334	NUMBER OF	F SUBJECTS	483
T	PERCENTILES		-	PERCENTILE	-
CENTIMETE		INCHES	CENTIME	FERCENTILE	INCHES
CENTELLEGIE	10	مستناهمي	CENTILL	TIM	THOMES
145.87	1ST	57.43	148.8	2 1ST	58.59
147.17	2ND	57.94	150.79	5 2ND	59.35
147.92		58.24	151.9	3 3RD	59.81
148.88	5TH	58.61	153.48	5TH	60.43
150.25	10TH	59.15	155.8	1 10TH	61.34
151.15	15TH	59.51	157.3	7 1 5TH	61.96
151.87	20TH	59.79	158.60	20TH	62.44
152.50	25TH	59.79 60.04	159.6		62.86
153.08	30TH	60.27	160.63	2 30TH	63.24
153.63	35TH	60.48	161.5		
154.16	40TH	60.69	162.3	5 40TH	63.92
154.69	45TH	60.90	163.19		
155.22	50TH	61.11	164.0	l 50TH	64.57
155.77	55TH	61.33	164.83	3 55TH	64.89
156.34	60TH	61.55	165.6		
156.94	65TH	61.79	166.53	3 65TH	65.56
157,59	70TH	62.04	167.49		
158.31	75TH	62.33	168.43	3 75TH	66.31
159.13	80TH	62.65	169.5		
160.09	85TH	63.03	170.78		
161.32	901H	63.51	172.3		
163.11	95TH	64.22	174.47		
164.22		64.65	175.79		
164.99	98TH	64.96	176.6		
166.08	99'IH	65.39	177.79		
TOO+00	72111	00.00	1//*/	, 33111	09.33

(D41) TREGICH HEIGHT, SITTING

The vertical distance between a sitting surface and the tragion landmark on the cartilaginous flap of flesh in front of the right earhole of a subject sitting erect with the head in the Frankfort plane is calculated as follows: SITTING HEIGHT minus TRAGION-TOP OF HEAD.



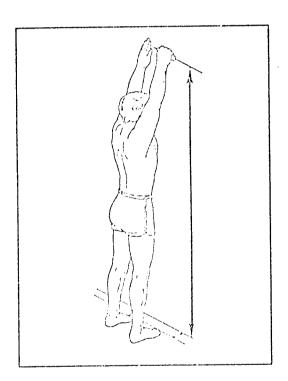
VARIABLE NO. (D41)—TRACION HEIGHT, SITTING

FEMALES

THE SUM	MARY STATI	STICS	नमह आ	MARY STAT	rstres
CENTIMETE	-	INCHES	CENTIMET		INCHES
Committee		ממנגוונג	CLAVILLI	ويركين	TIACTIES
75.80	MEAN	29.84	79.90	MEAN	31.46
	SE (MEAN)			SE (MEAN)	
	ST DEV	1.05	3.23		
0.10	SE(SD)	0.04	0.10	SE(SD)	0.04
67.80	MINIMUM	26.69	69.50	MINIMM	27.36
	MAXIMM	33.07			
04.00	PMALITUIT	33.07	89.00	MAXIMUM	35.04
COEFF. OF	VARIATION	3.5%	COEFF. OF	VARIATION	4.0%
SYMMETRY-	VETA I	-0.06	SYMETRY-	VETA I	-0.26
KURTOSIS	VETA II	2.90		VETA II	
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	483
			-		
PERCENTILES]	PERCENTILES	3	
CENTIMETE	RS	INCHES	CENTIMET	ERS	INCHES
69.78	1ST	27.47	71.00	1ST	27.95
70.31	2ND	27.68	72.53	2ND	28.56
70.70	3RD	27.84	73.39		
71.28	5TH		74.45		
72.26	10TH	28.45	75.89		
72.95	15TH		76.76		30.22
73.50	20TH	28.94		12111	30.22
			77.41	20111	30.40
73.99	25TH	29.13	77.94		
74.41	30TH		78.41		
74.81	35TH	29.45	78.84	35TH	
75.18	40TH	29.60	79.24	401H	31.20
75.53	45TH	29.74	79.62		31.35
75.87	50TH	29.87	80.00	50TH	31.50
76.21	55TH		80.38		
76.55	60TH	30.14	80.76		31.80
76.90	65TH				
		30.27	81.16		
77.26	70TH	30.42	81.59	70TH	32.12
77.64	75TH	30.57	82.04		
78.06	HIOS	30.73	32.56	8CTH	32.50
78.55	85TH	30.92	83.16		32.74
79.16	90TH	31.16	83.92	90TH	33.04
80.08	95TH	31.53	85.02		33.47
80.71	97TH	31.78	85.70		
81.20	98711	31.97	86.18		33.93
82.02		32.29			
62.02	991H	32.29	86.38	99TH	34.20

(D42) VERTICAL CRIP REACH

The vertical distance between a standing surface and the center of a 1-1/4" diameter dowel gripped horizontally in the right hand of a subject standing erect with the shoulder, anm, and hand held straight overhead is calculated as follows: OVERHEAD FINGERTIP REACH minus HAND LENGTH plus WRIST-CENTER OF GRIP LENGTH.



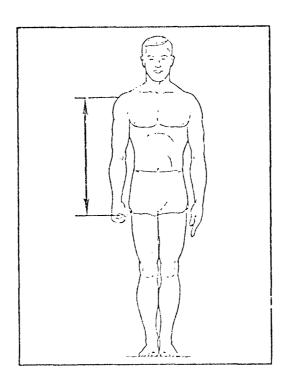
VARIABLE NO. (D42) - VERITCAL GRIP REACH

FEMALES

THE SUM	Mary Stati	STICS	THE SUM	MARY STATISTIC	'S
CENTIMETE		INCHES	CENTIMETE		
200.68	MEAN	79.01	211.61	MEAN 83.	31
	SE (MEAN)				15
	ST DEV	2.30			42
0.23	SE (SD)	0.09	0.28		11
0.23	SE (SD)	0.03	0.20	3E(3D) 0.	11
186.30	MINIMUM	73.35	189.70	MINIMUM 74.	69
	MAXIMUM	88.03	236.50		
223.00		00.03	230.30	12 mario 1 55 t	
COEFF. OF	VARIATION	2.9%	COEFF. OF	VARIATION 4.	1%
SYMMETRY	VETA I	0.55	SYMMETRY-	VETA I O.	80
KURIOSIS		3.58			77
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS 4	87
	ERCENTILES		F	ERCENTILES	
CENTIMETE	RS	INCHES	CENTIMETE	rs inch	ES
189.39	1ST		191.62	1ST 75.	44
190.40	2ND	74.96	194.14	2ND 76.	43
191.07	3RD	75.23	195.66	3RD 77.	03
192.03	5TH	75.60	197.63	5TH 77.	81
193.61	10TH	76.22	200.59	10TH 78.	
194.75	15TH	76.67	202.57	15TH 79.	75
195.69	20TH	77.04	204.16	20TH 80.	
196.54	25TH	77.38	205.55	25TH 80.	
197.32	30TH	77.69	206.81	30TH 81.	
198.07	35TH		208.00	35TH 81.	
198.79	40TH	78.26	209.14	40TH 82.	
199.50	45TH	78.54		45TH 82.	
			210.26		
200.23	50TH	78.83	211.39	50TH 83.	
200.96	55TH	79.12	212.53	55TH 83.	
201.72	60TH	79.42	213.70	60TH 84.	
202.52	65TH	79.73	214.92	65TH 84.	
203.38	70TH	80.07	216.21	70TH 85.	
204.32	75TH	80.44	217.62	75TH 85.	
205.39	80TH	80.86	219.20	80TH 86.	30
206.65	85TH	81.36	221.01	85TH 87.	01
208.28	90TH	82.00	223.26	90TH 87.	90
210.71	95TH	82.96	226.39	95TH 89.	13
212.31	97TH	83.58	228.22	97TH 89.	
213.47	98TH	84.04	229.43	98TH '90.	
215.29	99TH	84.76	231.64	99TH 90.	

(D43) VERTICAL GREP REACH DOWN

The vertical distance between the acromion landmark on the tip of the right shoulder and the center of a 1-1/4" diameter dowel gripped perpendicularly in the right hand of a subject standing erect with the arms held straight at the sides is calculated as follows: ACROMIAL HEIGHT minus WRIST HEIGHT plus WRIST-CENTER OF GRIP LENGTH.



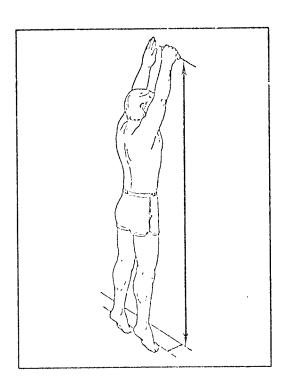
VARIABLE NO. (D43) —VERTICAL GRIP REACH DOWN

FEMALES

THE SUN CENTIMETE	Mary stat ers	ISTICS INCHES	THE SUMMARY STAT	
		11,02,00	CENTIMETERS	INCHES
62.43	MEAN	24.58	66.55 MEAN	26.20
0.12	SE (MEAN)	0.05	0.14 SE(MEAN)	0.06
2.19	ST DEV	0.86	3.19 ST DEV	1.26
0.08	SE(SD)	0.03	0.10 SE(SD)	
57.00	MINIMIM	50.44	•	0.04
			57.60 MINIMUM	22.68
71.90	MAXIMUM	28.31	75.00 MAXIMUM	29.53
COEFF. OF		3.5%	COEFF. OF VARIATION	4.8%
SYMMETRY—		0.67	SYMÆTRYVETA I	
KURIOSIS-	-VETA II	3.97	KURTOSISVETA II	2.78
			The state of the s	2.70
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS	487
				10,
or or	ERCENTILES	2		
CENTIMETE		INCHES	PERCENTILE	_
OLE 12 11 11 11 11		TMCUES	CEVIIMETERS	INCHES
58.44	1ST	23.01	59.60 1ST	00.45
58.74	2ND	23.13		
58.96	3PD	23.21	60.37 2ND	
59.28	5TH	23.34	60.85 3RD 61.50 5TH	23.96
59.82	10TH	23.55		24.21
60.23	15TH	23.71	62.51 10TH	24.61
60.56	20TH	23.84	63.21 15TH	24.89
60.86	25TH	23.96	63.78 20TH	25.11
61.15	301H	24.07	64.28 25TH	25.31
61.42	20111	24.07		25 40
	3 5 T T T			25.49
61.68	35TH	24.18	65.17 35TH	25.66
61.68 61.94	40TH	24.18 24.28	65.59 40TH	
61.94	40TH 45TH	24.18 24.28 24.39	65.59 40TH 66.00 45TH	25.66
61.94 62.20	401H 451H 501H	24.18 24.28 24.39 24.49	65.59 401H 66.00 45TH 66.42 50TH	25.66 25.82
61.94 62.20 62.47	401H 451H 501H 55TH	24.18 24.28 24.39 24.49 24.60	65.59 40TH 66.00 45TH 66.42 50TH 66.84 55TH	25.66 25.82 25.99
61.94 62.20 62.47 62.76	401H 451H 501H 551H 601H	24.18 24.28 24.39 24.49 24.60 24.71	65.59 401H 66.00 45TH 66.42 50TH 66.84 55TH 67.27 60TH	25.66 25.82 25.99 26.15
61.94 62.20 62.47 62.76 63.06	40TH 45TH 50TH 55TH 60TH 65TH	24.18 24.28 24.39 24.49 24.60 24.71 24.82	65.59 40TH 66.00 45TH 66.42 50TH 66.84 55TH	25.66 25.82 25.99 26.15 26.31
61.94 62.20 62.47 62.76 63.06 63.38	40TH 45TH 50TH 55TH 60TH 65TH 70TH	24.18 24.28 24.39 24.49 24.60 24.71 24.82 24.95	65.59 40TH 66.00 45TH 66.42 50TH 66.84 55TH 67.27 60TH	25.66 25.82 25.99 26.15 26.31 26.48 26.66
61.94 62.20 62.47 62.76 63.06 63.38 63.74	40TH 45TH 50TH 55TH 60TH 65TH 70TH 75TH	24.18 24.28 24.39 24.49 24.60 24.71 24.82 24.95 25.09	65.59 40TH 66.00 45TH 66.42 50TH 66.84 55TH 67.27 60TH 67.72 65TH	25.66 25.82 25.99 26.15 26.31 26.48 26.66 26.85
61.94 62.20 62.47 62.76 63.06 63.38 63.74 64.15	40TH 45TH 50TH 55TH 60TH 65TH 70TH 75TH	24.18 24.28 24.39 24.49 24.60 24.71 24.82 24.95 25.09 25.26	65.59 40TH 66.00 45TH 66.42 50TH 66.84 55TH 67.27 60TH 67.72 65TH 68.20 70TH	25.66 25.82 25.99 26.15 26.31 26.48 26.66 26.85 27.06
61.94 62.20 62.47 62.76 63.06 63.38 63.74 64.15 64.65	40TH 45TH 50TH 55TH 60TH 65TH 70TH 75TH 80TH	24.18 24.28 24.39 24.49 24.60 24.71 24.82 24.95 25.09 25.26 25.45	65.59 40TH 66.00 45TH 66.42 50TH 66.42 55TH 67.27 60TH 67.72 65TH 68.20 70TH 68.72 75TH 69.31 80TH	25.66 25.82 25.99 26.15 26.31 26.48 26.66 26.85 27.06 27.29
61.94 62.20 62.47 62.76 63.06 63.38 63.74 64.15 64.65 65.31	40TH 45TH 50TH 55TH 60TH 65TH 70TH 75TH 80TH 85TH 90TH	24.18 24.28 24.39 24.49 24.60 24.71 24.82 24.95 25.09 25.26 25.45 25.71	65.59 40TH 66.00 45TH 66.42 50TH 66.84 55TH 67.27 60TH 67.72 65TH 68.20 70TH 68.72 75TH 69.31 80TH 70.00 85TH	25.66 25.82 25.99 26.15 26.31 26.48 26.66 26.85 27.06 27.29 27.56
61.94 62.20 62.47 62.76 63.06 63.38 63.74 64.15 64.65 65.31 66.34	40TH 45TH 50TH 55TH 60TH 65TH 70TH 75TH 80TH 85TH 90TH	24.18 24.28 24.39 24.49 24.60 24.71 24.82 24.95 25.09 25.26 25.45	65.59 40TH 66.00 45TH 66.42 50TH 66.84 55TH 67.27 60TH 67.72 65TH 68.20 70TH 68.72 75TH 69.31 80TH 70.00 85TH 70.86 90TH	25.66 25.82 25.99 26.15 26.31 26.48 26.66 26.85 27.06 27.29 27.56 27.90
61.94 62.20 62.47 62.76 63.06 63.38 63.74 64.15 64.65 65.31 66.34 67.06	40TH 45TH 50TH 55TH 60TH 65TH 70TH 75TH 80TH 85TH 90TH	24.18 24.28 24.39 24.49 24.60 24.71 24.82 24.95 25.09 25.26 25.45 25.71	65.59 40TH 66.00 45TH 66.42 50TH 66.84 55TH 67.27 60TH 67.72 65TH 68.20 70TH 68.72 75TH 69.31 80TH 70.00 85TH 70.86 90TH 72.09 95TH	25.66 25.82 25.99 26.15 26.31 26.48 26.66 26.85 27.06 27.29 27.56 27.90 28.38
61.94 62.20 62.47 62.76 63.06 63.38 63.74 64.15 64.65 65.31 66.34 67.06 67.60	40TH 45TH 50TH 55TH 60TH 65TH 70TH 75TH 80TH 85TH 90TH	24.18 24.28 24.39 24.49 24.60 24.71 24.82 24.95 25.09 25.26 25.45 25.71 26.12	65.59 40TH 66.00 45TH 66.42 50TH 66.84 55TH 67.27 60TH 67.72 65TH 68.20 70TH 68.72 75TH 69.31 80TH 70.00 85TH 70.86 90TH 72.09 95TH 72.86 97TH	25.66 25.82 25.99 26.15 26.31 26.48 26.66 26.85 27.06 27.29 27.56 27.90 28.38 28.68
61.94 62.20 62.47 62.76 63.06 63.38 63.74 64.15 64.65 65.31 66.34 67.06	40TH 45TH 50TH 55TH 60TH 65TH 70TH 75TH 80TH 85TH 90TH 95TH	24.18 24.28 24.39 24.49 24.60 24.71 24.82 24.95 25.09 25.26 25.45 25.71 26.12 26.40	65.59 40TH 66.00 45TH 66.42 50TH 66.84 55TH 67.27 60TH 67.72 65TH 68.20 70TH 68.72 75TH 69.31 80TH 70.00 85TH 70.86 90TH 72.09 95TH	25.66 25.82 25.99 26.15 26.31 26.48 26.66 26.85 27.06 27.29 27.56 27.90 28.38

(D44) VERTICAL CRIP REACH, EXTENDED

The vertical distance between a standing surface and the center of a 1-1/4" diameter dowel gripped horizontally in the right hand of a subject standing on the toes and reaching straight overhead as far as possible is calculated as follows: OVERHEAD FINGERTIP REACH, EXTENDED minus HAND LENGIH plus WRIST-CENTER OF GRIP LENGIH.



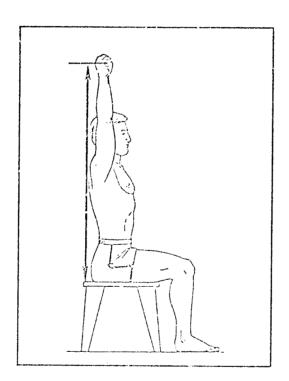
VARIABLE NO. (D44) - VERTICAL GRIP REACH, EXTENDED

FEMALES

			- 		
THE SUM	Mary Stati	STICS	THE SU	MMARY STAT	ISTICS
CENTIMETE	RS	INCHES	CENTIMET		INCHES
210.09	MEAN	82.71	221.52	MEAN	87.21
0.32	SE (MEAN)	0.13	0.40		0.16
	ST DEV	2.34	8.88	ST DEV	3.50
0.23	SE(SD)	0.09	0.28	SE(SD)	
0.23	OB (OB)	0.05	0.28	SE(SD)	0.11
197.80	MUNIMUM	77.87	198.10	MINIMUM	77.99
233.90	MAXIMUM	92.09	247.80	MAXIMUM	97.56
COEFF. OF	VARIATION	2.8%	COEFF. OF	VARIATION	4.0%
SYMMETRY	VETA I	0.59	SYMMETRY—		0.07
KURICSIS		3.48		VETA II	2.76
1010020	V13111 3.1	3.40	VOIT (2312)	VEIA II	2.70
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
			-		
T **	TO COMPANY TO THE				_
	ERCENITLES			PERCENTILES	-
CENTIMETE	ro C	INCHES	CENTIMETI	ERS	INCHES
198.61	1ST	78.19	201.50	1ST	79.33
199.66	2ND	78.61	203.78	2ND	80.23
200.35	3RD	78.88	205.21	3RD	80.79
201.31	5TH	79.26	207.14	5TH	81.55
202.89	10TH	79.88	210.14	10TH	82.73
204.02	15TH	80.32	212.20	15TH	83.54
204.96	20TH	80.69	213.85	20TH	84.19
205.81	25TH	81.03			
206.59			215.31	25TH	84.77
	30TH	81.34	216.63	30TH	85.29
207.34	35TH	81.63	217.86	35TH	85.77
208.08	40TH	81.92	219.05	40TH	86.24
208.80	45TH	82.21	220.21	45'TH	86.70
209.54	50TH	82.50	221.37	50TH	87.15
210.30	55TH	82.79	222.53	53TH	37.61
211.08	60TH	83.10	223.72	607H	88.08
211.91	65TH	83.43	224.96	65TH	88.57
212.80	701H	83.78	226.27	70TH	89.08
213.78	75TH	84.17			
214.91			227.00	75TH	89.64
	HI08	84.61	229.27	HT08	90.26
216.24	85TH	85.14	231.08	85TH	90.98
217.97	90IH	85.81	233.34	90TH	91.87
220.57	95TH	86.84	236.54	95TH	93.13
222.27	97TH	87.51	238.47	97TH	93.89
223.52	98TH	88.00	239.80	98TH	94.41
225.46	99TH	88.76	241.67	99TH	95.15
	- · · · · · -				~ ~

(DA5) VERFICAL GRIP REACH, STITTERS

The vertical distance between a sitting surface and the center of a 1-1/4" diameter dowel gripped horizontally in the right hand of a subject sitting erect with the anm held straight overhead is calculated as follows: OVERHEAD FINGERTIP REACH, STITING minus HAND LENGTH plus WRIST-CENTER OF GRIP LENGTH.

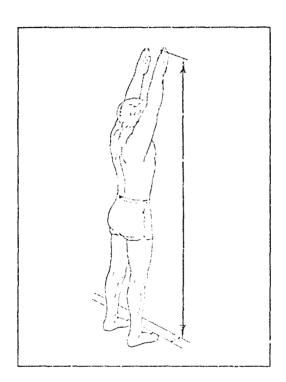


VARIABLE NO. (D15)—VERTICAL GRIP REACH, SITTING FEMALES MALES

THE SUM CENTIMETE	mary <i>s</i> tati Rs	ISTICS INCHES	THE SUMMARY CENTIMETERS	STATISTICS INCHES
0.21 3.87	MEAN SE (MEAN) ST DEV	0.08 1.52	0.24 SE(N 5.22 ST	EAN 51.71 MEAN) 0.09 DEV 2.05
0.15	SE (SD)	0.06		(SD) 0.07
	MINIMUM MAXIMUM			MUM 46.10 MUM 57.44
COEFF. OF			COEFF. OF VARIA	VIION 4.0%
SYMMETRY	VETA I	0.15	SYMMETRY——VE	EA I 0.04
KURTOSIS	VETA II	3.15	KURTOSISVE	TA II 2.86
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJE	
	ERCENTILES		PERCEN	MILES
CENTIMETE	RS	INCHES	CENTIMETERS	INCHES
115.79		45.59	118.86	1ST 46.80
117.01		46.07	120.55	2ND 47.46
117.74	3RD	46.35		3RD 47.85
118.66	5TH	46.72 47.24		5TH 48.37
119.99	10TH	47.24		OTH 49.11
120.85	15TH	-,,,		.5TH 49.60
121.52	201H	47.84	•	OTH 49.98
122.11	25TH	48.07		STH 50.31
122.63	30TH	48.28		OTH 50.61
123.12	35TH	48.47		5TH 50.89
123.59	40TH	48.66		OTH 51.15
124.06	45TH	48.84		5TH 51.41
124.52	50TH	49.02		OTH 51.67
125.00	55TH	49.21		5TH 51.93
125.49	60TH	49.40		OTH 52.19
126.00	65TH	49.61		5TH 52.47
126.56		49.83		OIH 52.76
127.17	75TH	50,07		
127.88	80TH	50.35		
128.72	85TH	50.68		
129.81	90TH	51.10		5TH 53.88
131.47	95TH	51.76		OTH 54.41
132.57	97TH	52.19		5TH 55.20
133.38	971H 98TH	52.19		7TH 55.70
134.66	99TH			8TH 56.05
T24.00	22111	53.01	143.69 9	9TH 56.57

(D46) VERTICAL INCEX FIREERITP REPCH

The vertical distance between a standing surface and the tip of the right index finger of a subject standing erect with the right shoulder, arm, and fingers stretched straight overhead is calculated as [Ollows: OVERHEAD FINGERITP REACH minus HAND LENGTH plus WRIST-INDEX FINGER LENGTH.



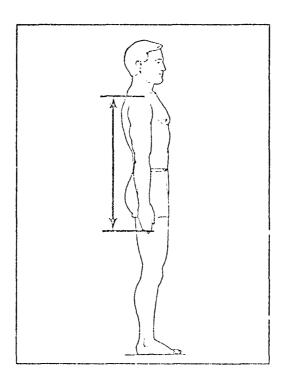
VARIABLE NO. (D46) - VERTICAL INDEX FINGERITP REACH

FEMALES

	Mary Stati		THE SUMMARY	
CENTIMETE	TRS .	INCHES	CENTIMETERS	INCHES
	MEAN			AN 87.78
	SE (MEAN)		0.41 SE(M	•
6.10	ST DEV	2.40	9.09 ST	
0.24	SE(SD)	0.09	0.29 SE(SD) 0.11
197.00	MINIMUM	77.56	199.40 MINI	MUM 78.50
236.20	MAXIMUM	92.99	249.10 MAXI	MUM 93.07
COEFF. OF	VARIATION	2.9%	COEFF. OF VARIA	PTON 4.1%
SYMMETRY		0.59	SYMMETRYVET	
	VETA II	3.€4	KURTOSISVET	
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJE	CTS 487
	PERCENTILES		PERCEN	
CENTIMETE	71/2	INCHES	CENTIMETERS	INCHES
199.56	1ST	78.57	202.06	1ST 79.55
200.52	2ND	78.94	204.50	2ND 80.51
201.17	3RD	79.20	206.03	3RD 81.11
202.13	5TH	79.58	208.10	5TH 81.93
203.74	10TH	80.21	211.28 1	OTH 83.18
204.92	15TH	80.68	213.45 1	5TH 84.03
205.90		81.06	215.17 2	OTH 84.71
206.79	25TH	81.41	216.67 2	5TH 85.30
207.61	30TH	81.74		OTH 85.84
208.39	35TH	82.04		5TH 86.33
209.14	401H	82.34		OTH 86.81
209.89		82.63		5TH 87.27
210.64	50TH	82.93		OTH 87.73
211.42	-	83.23		5TH 88.19
212.21	60TH	83.55		OTH 88.66
225.04		83.88		5TH 89.14
213.94	70TH	84.23		OTH 89.66
214.93	75TH	84.62		5TH 90.22
216.05		85.06		OTH 90.85
217.37	85TH	85.58		5TH 91.57
219.08		86.25		OTH 92.49
219.56	95TH			5TH 93.82
223.38	97TH	87.27 87.94		
				7TH 94.66
224.64		33.44		8TH 95.27
226.64	99TH	39.23	244.30 9	9TH 96.18

(D17) VERFICAL INTEK FINGERTIP KENCH LOOM

The vertical distance between the acromion landmark on the tip of the right shoulder and the tip of the right index finger of a subject standing erect with the arms, hands, and fingers held straight down at the sides is calculated as follows: ACROMIAL HEIGHT minus WRIST HEIGHT plus WRIST-INDEX FINGER LENGTH.

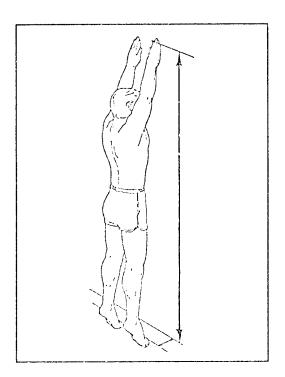


VARIABLE NO. (D47)—VERTICAL INDEX FINGERTIP REACH DOWN FEMALES HALES

THE SUN	Mary Stati	STICS INCHES		THE SUM	Mary Stati	ISTICS INCHES
CHARLETANIA		шчи		Cialitania		TIACTICS
72.93	MEAN	28.71		77.89		30.66
0.13	SE (MEAN)	0.05		0.16	SE (MEAN)	0.06
2.43	ST DEV	0.96		3.60	ST DEV	1.42
0.09	SE (SD)	0.04		0.12	SE(SD)	0.05
68.30	MUNIMUM	26.89		67.70	-	
83.00	MENTIXAM	32.68		87.60	MAXIMIM	34.49
COEFF. OF	VARIATION	3.3%		COEFF. OF	VARIA: ION	
SYMMETRY-	VETA I	0.78		SYMMETRY-	VETA I	0.14
KURTOSIS-	VETA II	3.98		KURTOSIS-	VETA II	2.73
NUMBER OF	SUBJECTS	334		NUMBER OF	SUBJECTS	487
		· · · · · · · · · · · · · · · · · · ·	_			
I	PERCENTILES	;		F	ERCENTILES	5
CENTIMETE	ERS	INCHES		CENTIMETE	RS	INCHES
68.55	1ST	26.99		70.41	ist	27.72
68.93	2ND	27.14		71.14	2ND	28.01
69.17	3RD	27.23		71.62	3RD	28.19
69.52	5TH	27.37		72.27	5TH	28.45
70.09	10TH	27.59		73.33	10TH	
70.50	15TH	27.76		74.09	15TH	
70.85	2011	27.89		74.71	20TH	29.41
71.17	25TH	28.02		75.28	25TH	
71.47	301H	28.14		75.80	30TH	
71.75	35TH	28.25		76.29	35TH	
72.04	40TH	28.36		76.77	40TH	30.22
72.33	45TH	28.48		77.24	45TH	30.41
72.62	501H	28.59		77.72	50 <i>1</i> H	30.60
72.92	55TH	28.71		78.21	55TH	30.79
73.24	60TH	28.83		78.71	60TH	
73.58	65TH	28.97		79.23	65TH	31.19
73.94	70IH	20.11		79.79	70TH	31.41
74.35	75TH	29,27		80.39	75TH	31.65
74.83	80TH	29.46		81.07	HT08	31.92
75. 39	85 TH	29.68		81.84	85TH	32.22
76.14	90TH	29.98		82.81	90TH	32.60
77.29	95TH	30.43		84.16	95TH	33.14
78.06	97TH	30.73		84.96	97TH	33.45
78.63	98TH	30.96		85.50	93TH	
79.54	99TH			86.23	99TH	33.95

(D48) VERITCAL INDEX FINGERITP REACH, EXTENDED

The vertical distance between a standing surface and the tip of the right index finger of a subject standing on the tips of the toes and reaching overhead as far as possible with the arms, hands, and fingers straight and parallel is calculated as follows: OVERHEAD FINGERTIP REACH, EXTENDED minus HAND LENGTH plus WRIST-INDEX FINGER LENGTH



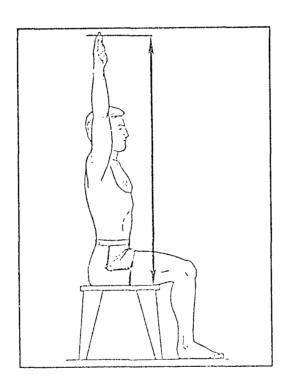
VARIABLE NO. (D48)—VERTICAL INDEX FINGERTIP REACH, EXTENDED

FEMALES

THE SUMM CENTIMETER	MARY STAT	ISTICS INCHES	THE SUMMARY STAY CENTIMETERS	TISTICS D'CHES
				تعليد يب الد
220.58	MEAN	86.84	222.06 15733	01.60
0.34		0.13	232.86 MEAN	
			0.42 SE(MEAN	
	ST DEV	2.45	9.29 ST DEV	
0.24	SE(SD)	0.09	0.30 SE(SD)	0.12
208.10	MUNIMUM	81.93	207.80 MINIMUM	81.81
245.00	MUNIXAM	96.46	260.40 MAXIMUM	
COEFF. CF V	ARTATTOM	2.8%	COUNTY OF INDIVIDUAL	* 4.00
SYMMETRY		0.61	COEFF. OF VARIATION	
KURIOSIS			SYMMETRY——VETA	
VOKTOSTS	-VEIA II	3.52	KURTOSISVETA II	2.77
NUMBER OF S	UBJECIS	334	NUMBER OF SUBJECTS	487
	······································			
	RCENTILES	5	PERCENTILE	S
CENTIMETER	S	INCHES	CENTIMETERS	INCHES
208.44	1ST	82.06	221 60 100	
209.73	2ND	82.57	211.68 1ST	
210.51			214.13 2ND	
	3RD	82.88	215.6 5 3RD	84.90
211.54	5TH	83.28	217.70 5TH	85.71
213.16	10TH	83.92	220.86 10TH	86.95
214.29	15TH	84.37	223.02 15TH	87.80
215.24	20TH	84.74	224.76 20TH	88.49
216.09	25TH	85.07	226.29 25TH	
216.88	30TH	85.39	227.68 30TH	
217.65	35TH	85.69	228.98 35TH	
218.40	40TH	85.99	230.23 40TH	
219.16	45TH	86.28		
219.93	50TH	86.59		91.12
220.72	55TH		232.67 50TH	91.60
-		86.90	233.90 55TH	92.09
221.55	60TH	87.22	235.16 60TH	92.58
222.43	65TH	87.57	236.46 65TH	93.10
223.38	70TH	87.94	237.84 70TH	93.64
224.43	75TH	88.36	239.33 75TH	94.23
225.63	HT08	88.83	241.00 80TH	94.88
227.05	85TH	89.39	242.90 85TH	95.63
228.86	90TH	90.10	245.25 90TH	96.55
231.53	95TH	91.15	248.53 95TH	
233.19	97TH	91.81		97.85
234.35			250.47 97TH	98.61
ムンせょうし	Ognij			
235.04	98TH 99TH	92.27 92.93	251.77 98TH 253.54 991H	99.12 99.82

(D49) VERTICAL INVEX FATURATED REACH, SITTING

The vertical distance between a sitting surface and the tip of the right index finger of a subject sitting erect and raising the right shoulder, arm, and fingers straight overhead is calculated as follows: OVERHEAD FINGERTIP REACH, SITTING minus HAND LENGTH plus WRIST-INDEX FINGER LENGTH.

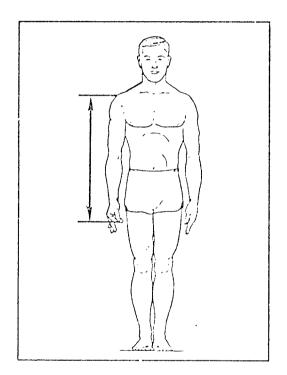


VARIABLE NO. (D49) — VERTICAL INDEX FINGERITP REACH, SITTING FEMALES MALES

			_	
	74 EN EL S			
	MARY STAT		THE SUMMARY	STATISTICS
CENTIMETE	ers .	INCHES	CENTIMETERS	INCHES
135.20		53.23	142.68 M	EAN 56.17
0.22	SE (MEAN)	0.09	0.25 SE(
4.09	ST DEV	1.61		DEV 2.20
0.16	SE (SD)			(SD) 0.07
122.60	MUNIMUM	<i>1</i> Ω 27	126.00 100	
14.70	MAXIMUM	58.11		IMUM 49.92
24.70	PHILIDIA	20.11	157.50 MAX	IMUM 62.01
COEFF. OF			COEFF. OF VARIA	%9.6 MOITA
SYMMETRY—	VETA I	0.21	SYMMETRY——VE	CA I 0.00
KURIOSIS-	-VETA II	3.11	KURTOSISVE	
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJE	ECTS 487
	ERCENTILES			VTILES
CENTIMETE	RS	INCHES	CENTIMETERS	INCHES
126.10	1ST	49.64	129.38	1ST 50.94
127.21	2ND	50.08	131.05	2ND 51.59
127.89	3RD	50.35	132.07	3RD 52.00
128.79	5 TH	50.70		5TH 52.53
130.14	10TH	51.23		OTH 53.33
131.04	15TH	51.59		53.87
131.76	20TH	51.87		OTH 54.29
132.38	25TH	52.12	_	5TH 54.66
132.95	30TH	52.34	_	OTH 54.99
133.48	35TH	52.55		5TH 55.29
133.99	40TH	52.75	_	
134.49	45TH	52.95		
134.99	50TH	53.15		
135.50	55TH	53.35		OTH 56.15
136.03	60TH	53.55		5TH 56.44
136.58	65TH	53.77		OTH 56.72
137.18	70IH	54.01		5TH 57.02
137.13	75TH			OTH 57.34
138.59		54.27		5TH 57.68
	HT08	54.56		OTH 58.07
139.48	85TH	54.91	148.63 8	51H 58.52
140.64	90TH	55.37	150. 06 9	OTH 59.08
142.41	95TH	56.07	152.14 99	5TH 59.90
143.60	97TH			7TH 60.41
144.48	98TH	56.88		3TH 60.78
145.89	99'IH	57.44		OTH 61.33

(D50) VERTICAL THUNETTP REACH DOWN

The vertical distance between the acromion landmark on the tip of the right shoulder and the tip of the right thumb of a subject standing erect with the arms held straight down and the thumb lying on the first knuckle of the index finger is calculated as follows: ACROMIAL HEIGHT minus WRUST HEIGHT plus WRIST-THUMBTIP LENGTH.



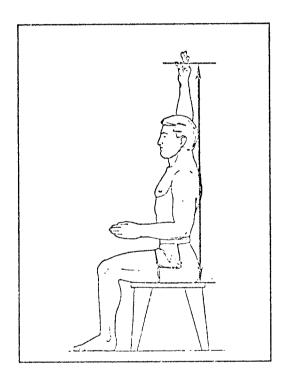
VARIABLE NO. (D50) - VERTICAL THIMBITP REACH DOWN

FEMALES

THE SUMMARY STA	ATISTICS INCHES	THE SUMMARY STATISTICS CENTIMETERS INCHES
67.64 MEAN 0.13 SE (MEAN 2.33 ST DEN 0.09 SE (SD)	N) 0.05 7 0.92	72.18 MEAN 28.42 0.16 SE(MEAN) 0.06 3.43 ST DEV 1.35 0.11 SE(SD) 0.04
62.50 MINIMUN 76.70 MAXIMUN		62.60 MINIMUM 24.65 81.50 MAXIMUM 32.09
COEFF. OF VARIATION SYMMETRY—VETA KURTOSIS—VETA INUMBER OF SUBJECTS	I 0.69 II 3.80	COEFF. OF VARIATION 4.7% SYMMETRY——VETA I 0.13 KURTOSIS——VETA II 2.80 NUMBER OF SUBJECTS 487
PERCENTII CENTIMETERS	LES INCHES	PERCENTILES CENTIMETERS INCHES
63.13 155 63.59 2NI 63.88 3RI 64.27 5TI 64.90 10TI 65.34 15TI 65.69 20TI 66.30 30TI 66.30 30TI 66.58 35TI 66.85 40TI 67.11 45TI 67.39 50TI 67.67 55TI 67.96 60TI 68.27 65TI 68.61 70TI	24.86 D 25.03 D 25.15 H 25.30 H 25.55 H 25.72 H 25.86 H 25.99 H 26.10 H 26.21 H 26.32 H 26.42 H 26.53 H 26.64 H 26.76 H 26.88 H 27.01	64.70 1ST 25.47 65.53 2ND 25.80 66.05 3RD 26.00 66.75 5TH 26.28 67.83 1OTH 26.71 68.59 15TH 27.00 69.19 2OTH 27.24 69.73 25TH 27.45 70.23 3OT 27.65 70.69 35TH 27.83 71.14 4OTH 28.01 71.59 45TH 28.18 72.03 5OTH 28.36 72.48 55TH 28.54 72.95 6OTH 28.72 73.43 65TH 28.91 73.95 7OTH 29.11
68.99 75TI 69.43 80TI 69.97 85TI 70.68 90TI 71.83 95TI 72.64 97TI 73.27 98TI 74.31 99TI	H 27.33 H 27.55 H 27.83 H 28.28 H 28.60 H 28.85	74.51 75TH 29.34 75.15 80TH 29.59 75.88 85TH 29.88 76.81 90TH 30.24 78.13 95TH 30.76 78.94 97TH 31.08 79.50 98TH 31.30 80.30 99TH 31.62

(D51) VERTICAL THUTETEP KEACH, STITTING

The vertical distance between a sitting surface and the tip of the right thumb of a subject sitting erect with the right shoulder, arm, and hand held straight overhead with the thumb lying on the first knuckle of the index finger is calculated as follows: OVERHEAD FINGERIIP REACH, SITTING minus HAND LENGTH plus WRIST-THUMBTIP LENGTH.



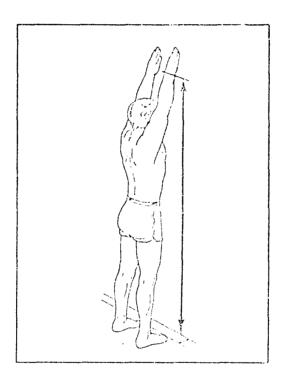
VARIABLE NO. (D51) -- VERTICAL THEMETIP REACH, SITTING

FEMALES

mm can	mental consess	CTTT CC	man can	aanu oom	cont oc
	Mary Stati			Mary Stati	
CENTIMETE	iko-	INCHES	CENTIMETI	34 0	INCHES
129.92	MEAN	51.15	136.98	MEAN	53.93
0.22	SE (MEAN)		0.25		
	ST DEV	1.58			2.13
0.16	SE(SD)	0.06	5.42 0.17	SE(SD)	0.07
	(,		552.	()	
	MINIMUM		121.50		
141.30	MAXIMUM	89.41	151.40	MINIXAM	59.61
COEFT. OF	VARIATION	3.1%	OPFE OF	VARIATION	4.0%
	VETA I		SYMMETRY—		
KURIOSIS-		3.10		VETA II	2.88
101110010	VIIIN II	3.10	Teltesis	AMIL TT	2.00
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	•			•
	PERCENTILES		·	PERCENTILES	
CENTIMETE	3KQ	INCHES	CENTIMET	1345	INCHES
120.63	1ST	47.49	124.36	1ST	48.96
121.81	2ND		125.83	2ND	
122.53	3RD	48.24	126.77		
123.47	5TH	48.61	128.04	51H	50.41
124.88	10TH	49.16	130.00		
125.81	15TH	49.53	131.33	15TH	51.71
126.54	20TH	49.82	132.38	20TH	
127.17	25TH		133.30		
127.74	30TH	50.29	134.11		
128.27	35TH	50.50	134.87		53.10
128.78	40TH	50.70	135.58	401H	53.38
129.28	45TH	50.90	136.28		
129.77	50TH		136.97	50TH	
130.27	55TH	51.29	137.66		
130.79	60TH	51.49	138.35	60TH	
131.32	65TH	51.70	139.08	65TH	
131.90	70TH	51.93	139.84	70TH	
132.53	75TH	52.18	140.67	75TH	55.38
133.25	HIOS	52.46	141.61		
134.10	85TH	52.40	142.69		
135.20	90IH	53.23	144.06		
136.89	95TH	53.89			
			146.11	90111	57.52
138.01	97TH		147.45		
138.85	98TH	54.66	148.44		
140.18	99TH	55.19	150.01	99TH	59.06

## (D52) VERTICAL VRIST HEIGHT

The vertical distance between a standing surface and the stylion landmark on the right wrist of a subject standing erect with the shoulder, arm, and hand held straight overhead is calculated as follows: OVERHEAD FINGERTIP REACH minus HAND LENGIH.



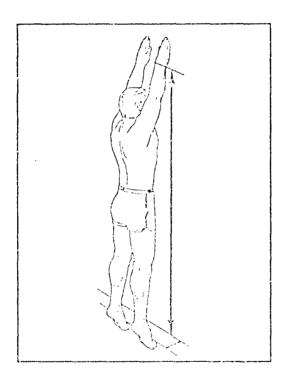
## VARIABLE NO. (D52) - VERTICAL WRIST HEIGHT

## FEMALES

THE SUMMARY STAT	ISTICS INCHES	THE SUMMARY STATIS CENTIMETERS I	TICS NCHES
193.98 MEAN 0.32 SE(MEAN) 5.77 ST DEV 0.22 SE(SD)	0.12	204.81 MEAN 0.39 SE(MEAN) 8.52 ST DEV 0.27 SE(SD)	80.63 0.15 3.35 0.11
180.00 MINIMUM 216.50 MAXIMUM			71.89 90.16
COEFF. OF VARIATION SYMMETRY——VETA I KURICSIS——VETA II NUMBER OF SUBJECTS	0.55 3.56	COEFF. OF VARIATION SYMMETRY——VETA I KURTOSIS——VETA II NUMBER OF SUBJECTS	4.2% 0.08 2.77 487
PERCENTILE CENTIMETERS	S INCHES	PERCENTILES CENTIMETERS I	NCHES
182.73 1ST 183.73 2ND 184.40 3RD 185.36 5TH 186.94 10TH 188.08 15TH 189.02 20TH 189.87 25TH 190.64 30TH 191.37 35TH 192.09 40TH 192.79 45TH 193.50 50TH 194.22 55TH 194.97 60TH 195.75 65TH 196.59 70TH 195.75 65TH 196.59 70TH 197.52 75TH 198.57 80TH 199.81 85TH 201.42 90TH 203.86 95TH 203.86 95TH 205.47 97TH 206.67 98TH 208.57 99TH	72.33 72.60 72.93 73.60 74.05 74.42	187.78 2ND 189.19 3RD 191.09 5TH 193.98 10TH 195.94 15TH 197.51 20TH 198.88 25TH 200.13 30TH 201.29 35TH 202.40 40TH 203.49 45TH 204.59 50TH 205.69 55TH 206.81 60TH 207.98 65TH 207.98 65TH 209.23 70TH 209.23 70TH 210.58 75TH 210.58 75TH 211 80TH 213.87 85TH 216.10 90TH 219.32 95TH 221.33 97TH 222.75 98TH	73.03 73.93 74.49 75.23 76.37 77.14 77.76 78.30 78.79 79.25 79.69 80.12 80.55 80.98 81.42 81.88 82.37 82.91 83.51 84.20 85.08 86.35 87.14 87.70 88.52

## (163) VERTICAL WRIST HEIGHT, ENTENDED

The vertical distance between a standing surface and the stylion landmark on the right wrist of a subject standing on the toes and reaching straight overhead as far as possible is calculated as follows: OVERHEAD FINGERHIP REACH, EXTENDED minus HAND LENGIH.



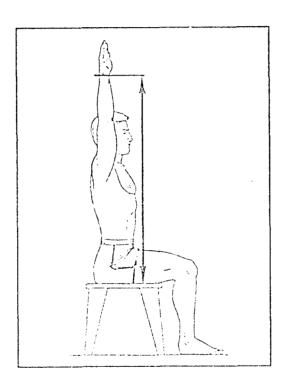
## VARIABLE NO. (D53) —VERTICAL WRIST HEIGHT, EXTENDED

## FEMALES

THE SUMMARY STATISTICS CENTIMETERS INCHES  203.39 MEAN 80.07 214.72 MEAN 84.53 0.32 SE(MEAN) 0.13 0.40 SE(MEAN) 0.16 5.87 ST DEV 2.31 8.72 ST DEV 3.43 0.23 SE(SD) 0.09 0.28 SE(SD) 0.11  191.20 MINIDUM 75.28 227.10 MAXIMUM 89.41 240.30 MAXIMUM 94.61  COEFF. OF VARIATION 2.9% SYMMETRY—VETA I 0.57 KURICGIS—VETA II 3.47  NUMBER OF SUBJECTS 334  PERCENTILES CENTIMETERS INCHES  PERCENTILES CENTIMETERS INCHES  192.00 1ST 75.59 195.25 1ST 76.87 193.09 2ND 76.02 194.75 5TH 76.67 200.64 5TH 78.99 196.30 10TH 77.28 203.53 10TH 80.13 197.41 1STH 77.72 205.53 1STH 80.93 198.33 20TH 78.41 208.57 2STH 82.11 199.93 30TH 78.78 199.16 2STH 78.08 200.18 40TH 79.28 202.10 4STH 79.28 202.10 4STH 79.28 202.10 4STH 79.28 202.10 4STH 79.28 202.13 40TH 83.56 202.10 4STH 79.28 203.57 5STH 84.1 209.87 30TH 82.62 200.66 3STH 79.00 201.38 40TH 79.28 202.10 4STH 79.28 202.20.35 2OTH 83.56 202.10 4STH 79.28 202.35 3OTH 83.60 205.37 5STH 80.15 202.83 5OTH 79.85 202.10 4STH 79.57 213.39 4STH 84.01 202.83 5OTH 79.85 202.10 4STH 79.57 213.39 4STH 84.01 202.83 5OTH 79.85 204.35 6OTH 80.45 205.57 6STH 80.97 204.35 6OTH 80.45 205.57 6STH 80.77 218.09 6STH 85.86 206.05 7OTH 81.51 207.03 7STH 81.51 207.03 7STH 81.51 207.07 7STH 81.51
CENTIMETERS   INCHES   CENTIMETERS   INCHES
203.39   MEAN   80.07   214.72   MEAN   84.53
0.32 SE(MEAN) 0.13 0.40 SE(MEAN) 0.16 5.87 ST DEV 2.31 8.72 ST DEV 3.43 0.23 SE(SD) 0.09 0.28 SE(SD) 0.11 191.20 MINIMUM 75.28 191.00 MINIMUM 75.20 227.10 MAXIMUM 89.41 240.30 MAXIMUM 94.61 COEFF. OF VARIATION 2.9% CDEFF. OF VARIATION 4.1% SYMMETRY—VETA I 0.57 SYMMETRY—VETA I 0.07 KURICGIS—VETA II 3.47 KURICGIS—VETA II 2.75 NUMBER OF SUBJECTS 334 NUMBER OF SUBJECTS 487 PERCENTILES CENTIMETERS INCHES CENTIMETERS INCHES 193.09 2ND 76.02 197.42 2ND 77.73 193.79 3RD 76.29 198.79 3RD 76.29 194.75 5TH 76.67 200.64 5TH 78.99 196.30 10TH 77.28 203.53 10TH 80.13 197.41 15TH 77.72 205.53 15TH 80.92 198.33 20TH 78.08 207.15 20TH 81.55 199.16 25TH 78.04 207.15 20TH 81.55 199.16 25TH 78.04 207.15 20TH 81.55 200.36 35TH 79.00 211.08 35TH 82.11 199.93 30TH 78.74 209.87 30TH 82.62 200.66 35TH 79.00 211.08 35TH 82.10 201.38 40TH 79.28 202.25 40TH 83.56 202.10 45TH 79.25 202.68 55TH 84.01 202.83 50TH 79.85 214.54 50TH 84.60 202.63 50TH 79.85 214.54 50TH 84.60 202.63 50TH 79.85 214.54 50TH 84.66 203.57 55TH 80.15 215.69 55TH 84.92 204.35 60TH 80.45 216.87 60TH 80.45 207.03 75TH 80.15 220.79 75TH 86.93 208.15 80TH 81.95 222.36 80TH 87.54
0.32 SE(MEAN) 0.13 0.40 SE(MEAN) 0.16 5.87 ST DEV 2.31 8.72 ST DEV 3.43 0.23 SE(SD) 0.09 0.28 SE(SD) 0.11 191.20 MINIMUM 75.28 191.00 MINIMUM 75.20 227.10 MAXIMUM 89.41 240.30 MAXIMUM 94.61 COEFF. OF VARIATION 2.9% CDEFF. OF VARIATION 4.1% SYMMETRY—VETA I 0.57 SYMMETRY—VETA I 0.07 KURICGIS—VETA II 3.47 KURICGIS—VETA II 2.75 NUMBER OF SUBJECTS 334 NUMBER OF SUBJECTS 487 PERCENTILES CENTIMETERS INCHES CENTIMETERS INCHES 193.09 2ND 76.02 197.42 2ND 77.73 193.79 3RD 76.29 198.79 3RD 76.29 194.75 5TH 76.67 200.64 5TH 78.99 196.30 10TH 77.28 203.53 10TH 80.13 197.41 15TH 77.72 205.53 15TH 80.92 198.33 20TH 78.08 207.15 20TH 81.55 199.16 25TH 78.04 207.15 20TH 81.55 199.16 25TH 78.04 207.15 20TH 81.55 200.36 35TH 79.00 211.08 35TH 82.11 199.93 30TH 78.74 209.87 30TH 82.62 200.66 35TH 79.00 211.08 35TH 82.10 201.38 40TH 79.28 202.25 40TH 83.56 202.10 45TH 79.25 202.68 55TH 84.01 202.83 50TH 79.85 214.54 50TH 84.60 202.63 50TH 79.85 214.54 50TH 84.60 202.63 50TH 79.85 214.54 50TH 84.66 203.57 55TH 80.15 215.69 55TH 84.92 204.35 60TH 80.45 216.87 60TH 80.45 207.03 75TH 80.15 220.79 75TH 86.93 208.15 80TH 81.95 222.36 80TH 87.54
5.87         ST DEV         2.31         8.72         ST DEV         3.43           0.23         SE(SD)         0.09         0.28         SE(SD)         0.11           191.20         MINITUM         75.28         191.00         MINITUM         75.20           227.10         MAXIMUM         89.41         240.30         MAXIMUM         94.61           COEFF. OF VARIATION         2.9%         CDEFF. OF VARIATION         4.1%           SYMMETRY—VETA I         0.57         SYMMETRY—VETA I         0.07           KURICSIS—VETA III         3.47         KURICSIS—VETA III         2.75           NUMBER OF SUBJECTS         334         NUMBER OF SUBJECTS         487           FERCENTILES         FERCENTILES           CENTIMETERS         INCHES           192.00         1ST 75.59         195.25         1ST 76.87           193.09         2ND 76.02         197.42         2ND 77.73           193.79         3RD 76.29         198.79         3RD 78.26           194.75         5TH 76.67         200.64         5TH 78.99           196.30         10TH 77.28         203.53         10TH 80.13           197.41         15TH 77.72
0.23         SE(SD)         0.09         0.28         SE(SD)         0.11           191.20         MINIMUM         75.28         191.00         MINIMUM         75.20           227.10         MAXIMUM         89.41         240.30         MAXIMUM         94.61           COEFF. OF VARIATION         2.9%         CDEFF. OF VARIATION         4.1%           SYMMETRY—VETA I         0.57         SYMMETRY—VETA II         0.07           KURICOSIS—VETA II         3.47         KURICOSIS—VETA II         2.75           NUMBER OF SUBJECTS         334         NÜHEER OF SUBJECTS         487           FERCENTILES           CENTIMETERS         INCHES           PERCENTILES           PERCENTILES           CENTIMETERS </td
191.20 MINIMUM 75.28 227.10 MAXIMUM 89.41  COEFF. OF VARIATION 2.9% SYMMETRY—VETA I 0.57 RURIOSIS—VETA II 3.47  NUMBER OF SUBJECTS 334  PERCENTILES CENTIMETERS INCHES  192.00 1ST 75.59 193.09 2ND 76.02 193.09 2ND 76.02 194.75 5TH 76.67 200.64 5TH 78.99 196.30 10TH 77.28 203.53 10TH 80.13 197.41 15TH 77.72 205.53 15TH 80.15 200.66 35TH 79.00 201.38 40TH 79.28 200.66 35TH 79.00 201.38 40TH 79.28 200.67 75TH 80.15 200.68 75TH 84.01 201.38 40TH 79.28 202.83 50TH 79.85 204.35 60TH 80.45 205.17 65TH 80.47 206.67 60TH 85.86 207.03 75TH 81.51
COEFF. OF VARIATION   2.9%   COEFF. OF VARIATION   4.1%   SYMMETRYVETA   1   0.57   SYMMETRYVETA   1   0.07   RURIOSISVETA   1   3.47   RURIOSISVETA   1   2.75
COEFF. OF VARIATION   2.9%   COEFF. OF VARIATION   4.1%   SYMMETRYVETA   1   0.57   SYMMETRYVETA   1   0.07   RURIOSISVETA   1   3.47   RURIOSISVETA   1   2.75
COEFF. OF VARIATION         2.9%         COEFF. OF VARIATION         4.1%           SYMMETRY—VETA         I         0.57         SYMMETRY—VETA         I         0.07           KURIOSIS—VETA         II         3.47         KURIOSIS—VETA         II         2.75           NUMBER OF SUBJECTS         334         NUMBER OF SUBJECTS         487           PERCENTILES           CENTIMETERS         INCHES         FERCENTILES           192.00         1ST         75.59         195.25         1ST         76.27           193.09         2ND         76.02         197.42         2ND         77.73           193.79         3RD         76.29         198.79         3RD         78.26           194.75         5TH         76.67         200.64         5TH         78.99           196.30         10TH         77.28         203.53         10TH         80.13           197.41         15TH         77.72         205.53         15TH         80.92           198.33         20TH         78.08         207.15         20TH         81.55           199.16         25TH         78.41         208.57         25TH         82.11
SYMMETRYVETA I 0.57
NUMBER OF SUBJECTS 334  PERCENTILES CENTIMETERS  192.00  1ST  193.09  2ND  76.02  194.75  5TH  76.27  194.75  5TH  76.29  195.35  197.42  198.79  196.30  101H  77.28  196.30  101H  77.72  196.30  101H  77.72  197.41  15TH  77.72  198.33  20TH  78.08  207.15  205.53  15TH  80.92  198.33  20TH  78.08  207.15  20TH  81.55  199.16  25TH  78.41  208.57  25TH  82.11  199.93  30TH  78.71  209.87  30TH  82.62  200.66  35TH  79.00  211.08  35TH  83.10  201.38  40TH  79.28  202.10  45TH  79.57  213.39  45TH  84.01  202.83  50TH  79.85  204.35  60TH  80.45  205.57  55TH  80.15  216.87  60TH  85.38  207.03  75TH  81.51  207.03  75TH  81.51  200.79  75TH  86.93  208.15  80TH  81.55
NUMBER OF SUBJECTS 334  PERCENTILES  CENTIMETERS  192.00 1ST 75.59 195.25 1ST 76.87 193.09 2ND 76.02 194.75 5TH 76.67 196.30 10TH 77.28 196.30 10TH 77.28 197.41 15TH 77.72 198.33 20TH 78.08 199.16 25TH 78.41 199.93 30TH 78.71 200.66 35TH 79.00 201.38 40TH 79.28 202.10 45TH 79.57 202.83 50TH 79.85 202.10 45TH 79.85 204.35 60TH 80.45 205.57 55TH 80.15 206.65 70TH 81.12 207.03 75TH 81.51
PERCENTILES CENTIMETERS INCHES  192.00 1ST 75.59 195.25 1ST 76.87 193.09 2ND 76.02 197.42 2ND 77.73 193.79 3RD 76.29 198.79 3RD 78.26 194.75 5TH 76.67 200.64 5TH 78.99 196.30 10TH 77.28 203.53 10TH 80.13 197.41 15TH 77.72 205.53 15TH 80.92 198.33 20TH 78.08 207.15 20TH 81.55 199.16 25TH 78.41 208.57 25TH 82.11 199.93 30TH 78.71 209.87 30TH 82.62 200.66 35TH 79.00 211.08 35TH 83.10 201.38 40TH 79.28 212.25 40TH 83.56 202.10 45TH 79.57 213.39 45TH 84.01 202.83 50TH 79.85 214.54 50TH 84.46 203.57 55TH 80.15 215.69 55TH 84.92 204.35 60TH 80.45 205.17 65TH 80.47 218.09 65TH 85.38 205.17 65TH 80.47 218.09 65TH 85.38 206.05 70TH 81.12 219.39 70TH 86.93 208.15 80TH 81.95
PERCENTILES CENTIMETERS INCHES  192.00 1ST 75.59 195.25 1ST 76.87 193.09 2ND 76.02 197.42 2ND 77.73 193.79 3RD 76.29 198.79 3RD 78.26 194.75 5TH 76.67 200.64 5TH 78.99 196.30 10TH 77.28 203.53 10TH 80.13 197.41 15TH 77.72 205.53 15TH 80.92 198.33 20TH 78.08 207.15 20TH 81.55 199.16 25TH 78.41 208.57 25TH 82.11 199.93 30TH 78.71 209.87 30TH 82.62 200.66 35TH 79.00 211.08 35TH 83.10 201.38 40TH 79.28 212.25 40TH 83.56 202.10 45TH 79.57 213.39 45TH 84.01 202.83 50TH 79.85 214.54 50TH 84.46 203.57 55TH 80.15 215.69 55TH 84.92 204.35 60TH 80.45 205.17 65TH 80.47 218.09 65TH 85.38 205.17 65TH 80.47 218.09 65TH 85.38 206.05 70TH 81.12 219.39 70TH 86.93 208.15 80TH 81.95
CENTIMETERS         INCHES         CENTIMETERS         INCHES           192.00         1ST         75.59         195.25         1ST         76.87           193.09         2ND         76.02         197.42         2ND         77.73           193.79         3RD         76.29         198.79         3RD         78.26           194.75         5TH         76.67         200.64         5TH         78.99           196.30         10TH         77.28         203.53         10TH         80.13           197.41         15TH         77.72         205.53         15TH         80.92           198.33         20TH         78.08         207.15         20TH         81.55           199.16         25TH         78.41         208.57         25TH         82.11           199.93         30TH         78.71         209.87         30TH         82.62           200.66         35TH         79.00         211.08         35TH         83.10           201.38         40TH         79.28         212.25         40TH         83.56           202.10         45TH         79.57         213.39         45TH         84.01           202.83 <t< td=""></t<>
CENTIMETERS         INCHES         CENTIMETERS         INCHES           192.00         1ST         75.59         195.25         1ST         76.87           193.09         2ND         76.02         197.42         2ND         77.73           193.79         3RD         76.29         198.79         3RD         78.26           194.75         5TH         76.67         200.64         5TH         78.99           196.30         10TH         77.28         203.53         10TH         80.13           197.41         15TH         77.72         205.53         15TH         80.92           198.33         20TH         78.08         207.15         20TH         81.55           199.16         25TH         78.41         208.57         25TH         82.11           199.93         30TH         78.71         209.87         30TH         82.62           200.66         35TH         79.00         211.08         35TH         83.10           201.38         40TH         79.28         212.25         40TH         83.56           202.10         45TH         79.57         213.39         45TH         84.01           202.83 <t< td=""></t<>
CENTIMETERS         INCHES         CENTIMETERS         INCHES           192.00         1ST         75.59         195.25         1ST         76.87           193.09         2ND         76.02         197.42         2ND         77.73           193.79         3RD         76.29         198.79         3RD         78.26           194.75         5TH         76.67         200.64         5TH         78.99           196.30         10TH         77.28         203.53         10TH         80.13           197.41         15TH         77.72         205.53         15TH         80.92           198.33         20TH         78.08         207.15         20TH         81.55           199.16         25TH         78.41         208.57         25TH         82.11           199.93         30TH         78.71         209.87         30TH         82.62           200.66         35TH         79.00         211.08         35TH         83.10           201.38         40TH         79.28         212.25         40TH         83.56           202.10         45TH         79.57         213.39         45TH         84.01           202.83 <t< td=""></t<>
192.00 1ST 75.59 195.25 1ST 76.87 193.09 2ND 76.02 197.42 2ND 77.73 193.79 3RD 76.29 198.79 3RD 78.26 194.75 5TH 76.67 200.64 5TH 78.99 196.30 10TH 77.28 203.53 10TH 80.13 197.41 15TH 77.72 205.53 15TH 80.92 198.33 20TH 78.08 207.15 20TH 81.55 199.16 25TH 78.41 208.57 25TH 82.11 199.93 30TH 78.71 209.87 30TH 82.62 200.66 35TH 79.00 211.08 35TH 83.10 201.38 40TH 79.28 212.25 40TH 83.56 202.10 45TH 79.57 213.39 45TH 84.01 202.83 50TH 79.85 214.54 50TH 84.46 203.57 55TH 80.15 215.69 55TH 84.92 204.35 60TH 80.45 216.87 60TH 85.38 205.17 65TH 80.45 216.87 60TH 85.38 205.17 65TH 80.77 218.09 65TH 85.86 206.05 70TH 81.12 219.39 70TH 86.37 207.03 75TH 81.51 220.79 75TH 86.93 208.15 80TH 81.95
193.09 2ND 76.02 197.42 2ND 77.73 193.79 3RD 76.29 198.79 3RD 78.26 194.75 5TH 76.67 200.64 5TH 78.99 196.30 10TH 77.28 203.53 10TH 80.13 197.41 15TH 77.72 205.53 15TH 80.92 198.33 20TH 78.08 207.15 20TH 81.55 199.16 25TH 78.41 208.57 25TH 82.11 199.93 30TH 78.71 209.87 30TH 82.62 200.66 35TH 79.00 211.08 35TH 83.10 201.38 40TH 79.28 212.25 40TH 83.56 202.10 45TH 79.57 213.39 45TH 84.01 202.83 50TH 79.85 214.54 50TH 84.46 203.57 55TH 80.15 215.69 55TH 84.92 204.35 60TH 80.45 216.87 60TH 85.38 205.17 65TH 80.77 218.09 65TH 85.86 206.05 70TH 81.12 219.39 70TH 86.37 207.03 75TH 81.51 220.79 75TH 86.93 208.15 80TH 81.95 222.36 80TH 87.54
193.09 2ND 76.02 197.42 2ND 77.73 193.79 3RD 76.29 198.79 3RD 78.26 194.75 5TH 76.67 200.64 5TH 78.99 196.30 10TH 77.28 203.53 10TH 80.13 197.41 15TH 77.72 205.53 15TH 80.92 198.33 20TH 78.08 207.15 20TH 81.55 199.16 25TH 78.41 208.57 25TH 82.11 199.93 30TH 78.71 209.87 30TH 82.62 200.66 35TH 79.00 211.08 35TH 83.10 201.38 40TH 79.28 212.25 40TH 83.56 202.10 45TH 79.57 213.39 45TH 84.01 202.83 50TH 79.85 214.54 50TH 84.46 203.57 55TH 80.15 215.69 55TH 84.92 204.35 60TH 80.45 216.87 60TH 85.38 205.17 65TH 80.77 218.09 65TH 85.86 206.05 70TH 81.12 219.39 70TH 86.37 207.03 75TH 81.51 220.79 75TH 86.93 208.15 80TH 81.95 222.36 80TH 87.54
193.79       3RD       76.29       198.79       3RD       78.26         194.75       5TH       76.67       200.64       5TH       78.99         196.30       10TH       77.28       203.53       10TH       80.13         197.41       15TH       77.72       205.53       15TH       80.92         198.33       20TH       78.08       207.15       20TH       81.55         199.16       25TH       78.41       208.57       25TH       82.11         199.93       30TH       78.71       209.87       30TH       82.62         200.66       35TH       79.00       211.08       35TH       83.10         201.38       40TH       79.28       212.25       40TH       83.56         202.10       45TH       79.57       213.39       45TH       84.01         202.83       50TH       79.85       214.54       50TH       84.46         203.57       55TH       80.15       215.69       55TH       84.92         204.35       60TH       80.45       216.87       60TH       85.38         205.17       65TH       80.77       218.09       65TH       85.86
194.75       5TH       76.67       200.64       5TH       78.99         196.30       10TH       77.28       203.53       10TH       80.13         197.41       15TH       77.72       205.53       15TH       80.92         198.33       20TH       78.08       207.15       20TH       81.55         199.16       25TH       78.41       208.57       25TH       82.11         199.93       30TH       78.71       209.87       30TH       82.62         200.66       35TH       79.00       211.08       35TH       83.10         201.38       40TH       79.28       212.25       40TH       83.56         202.10       45TH       79.57       213.39       45TH       84.01         202.83       50TH       79.85       214.54       50TH       84.46         203.57       55TH       80.15       215.69       55TH       84.92         204.35       60TH       80.45       216.87       60TH       85.38         205.17       65TH       80.77       218.09       65TH       85.86         206.05       70TH       81.51       220.79       75TH       86.93 <t< td=""></t<>
196.30       10TH       77.28       203.53       10TH       80.13         197.41       15TH       77.72       205.53       15TH       80.92         198.33       20TH       78.08       207.15       20TH       81.55         199.16       25TH       78.41       208.57       25TH       82.11         199.93       30TH       78.71       209.87       30TH       82.62         200.66       35TH       79.00       211.08       35TH       83.10         201.38       40TH       79.28       212.25       40TH       83.56         202.10       45TH       79.57       213.39       45TH       84.01         202.83       50TH       79.85       214.54       50TH       84.46         203.57       55TH       80.15       215.69       55TH       84.92         204.35       60TH       80.45       216.87       60TH       85.38         205.17       65TH       80.77       218.09       65TH       85.86         206.05       70TH       81.12       219.39       70TH       86.37         207.03       75TH       81.51       220.79       75TH       86.93
197.41       15TH       77.72       205.53       15TH       80.92         198.33       20TH       78.08       207.15       20TH       81.55         199.16       25TH       78.41       208.57       25TH       82.11         199.93       30TH       78.71       209.87       30TH       82.62         200.66       35TH       79.00       211.08       35TH       83.10         201.38       40TH       79.28       212.25       40TH       83.56         202.10       45TH       79.57       213.39       45TH       84.01         202.83       50TH       79.85       214.54       50TH       84.46         203.57       55TH       80.15       215.69       55TH       84.92         204.35       60TH       80.45       216.87       60TH       85.36         205.17       65TH       80.77       218.09       65TH       85.86         206.05       70TH       81.12       219.39       70TH       86.37         207.03       75TH       81.51       220.79       75TH       86.93         208.15       80TH       81.95       222.36       80TH       87.54 </td
198.33       20TH       78.08       207.15       20TH       81.55         199.16       25TH       78.41       208.57       25TH       82.11         199.93       30TH       78.71       209.87       30TH       82.62         200.66       35TH       79.00       211.08       35TH       83.10         201.38       40TH       79.28       212.25       40TH       83.56         202.10       45TH       79.57       213.39       45TH       84.01         202.83       50TH       79.85       214.54       50TH       84.46         203.57       55TH       80.15       215.69       55TH       84.92         204.35       60TH       80.45       216.87       60TH       85.38         205.17       65TH       80.77       218.09       65TH       85.86         206.05       70TH       81.12       219.39       70TH       86.37         207.03       75TH       81.51       220.79       75TH       86.93         208.15       80TH       81.95       222.36       80TH       87.54
199.16       25TH       78.41       208.57       25TH       82.11         199.93       30TH       78.71       209.87       30TH       82.62         200.66       35TH       79.00       211.08       35TH       83.10         201.38       40TH       79.28       212.25       40TH       83.56         202.10       45TH       79.57       213.39       45TH       84.01         202.83       50TH       79.85       214.54       50TH       84.46         203.57       55TH       80.15       215.69       55TH       84.92         204.35       60TH       80.45       216.87       60TH       85.38         205.17       65TH       80.77       218.09       65TH       85.86         206.05       70TH       81.12       219.39       70TH       86.37         207.03       75TH       81.51       220.79       75TH       86.93         208.15       80TH       81.95       222.36       80TH       87.54
199.93       30TH       78.71       209.87       30TH       82.62         200.66       35TH       79.00       211.08       35TH       83.10         201.38       40TH       79.28       212.25       40TH       83.56         202.10       45TH       79.57       213.39       45TH       84.01         202.83       50TH       79.85       214.54       50TH       84.46         203.57       55TH       80.15       215.69       55TH       84.92         204.35       60TH       80.45       216.87       60TH       85.38         205.17       65TH       80.77       218.09       65TH       85.86         206.05       70TH       81.12       219.39       70TH       86.37         207.03       75TH       81.51       220.79       75TH       86.93         208.15       80TH       81.95       222.36       80TH       87.54
200.66       35TH       79.00       211.08       35TH       83.10         201.38       40TH       79.28       212.25       40TH       83.56         202.10       45TH       79.57       213.39       45TH       84.01         202.83       50TH       79.85       214.54       50TH       84.46         203.57       55TH       80.15       215.69       55TH       84.92         204.35       60TH       80.45       216.87       60TH       85.38         205.17       65TH       80.77       218.09       65TH       85.86         206.05       70TH       81.12       219.39       70TH       86.37         207.03       75TH       81.51       220.79       75TH       86.93         208.15       80TH       81.95       222.36       80TH       87.54
201.38       40IH       79.28       212.25       40IH       83.56         202.10       45IH       79.57       213.39       45IH       84.01         202.83       50IH       79.85       214.54       50IH       84.46         203.57       55IH       80.15       215.69       55IH       84.92         204.35       60IH       80.45       216.87       60IH       85.38         205.17       65IH       80.77       218.09       65IH       85.86         206.05       70IH       81.12       219.39       70IH       86.37         207.03       75IH       81.51       220.79       75IH       86.93         208.15       80IH       81.95       222.36       80IH       87.54
202.10     45TH     79.57     213.39     45TH     84.01       202.83     50TH     79.85     214.54     50TH     84.46       203.57     55TH     80.15     215.69     55TH     84.92       204.35     60TH     80.45     216.87     60TH     85.38       205.17     65TH     80.77     218.09     65TH     85.86       206.05     70TH     81.12     219.39     70TH     86.37       207.03     75TH     81.51     220.79     75TH     86.93       208.15     80TH     81.95     222.36     80TH     87.54
202.83       50TH       79.85       214.54       50TH       84.46         203.57       55TH       80.15       215.69       55TH       84.92         204.35       60TH       80.45       216.87       60TH       85.38         205.17       65TH       80.77       218.09       65TH       85.86         206.05       70TH       81.12       219.39       70TH       86.37         207.03       75TH       81.51       220.79       75TH       86.93         208.15       80TH       81.95       222.36       80TH       87.54
203.57     55TH     80.15     215.69     55TH     84.92       204.35     60TH     80.45     216.87     60TH     85.38       205.17     65TH     80.77     218.09     65TH     85.86       206.05     70TH     81.12     219.39     70TH     86.37       207.03     75TH     81.51     220.79     75TH     86.93       208.15     80TH     81.95     222.36     80TH     87.54
204.35       60TH       80.45       216.87       60TH       85.33         205.17       65TH       80.77       218.09       65TH       85.86         206.05       70TH       81.12       219.39       70TH       86.37         207.03       75TH       81.51       220.79       75TH       86.93         208.15       80TH       81.95       222.36       80TH       87.54
205.17       65TH       80.77       218.09       65TH       85.86         206.05       70TH       81.12       219.39       70TH       86.37         207.03       75TH       81.51       220.79       75TH       86.93         208.15       80TH       81.95       222.36       80TH       87.54
206.05       70TH       81.12       219.39       70TH       86.37         207.03       75TH       81.51       220.79       75TH       86.93         208.15       80TH       81.95       222.36       80TH       87.54
207.03       75TH       81.51       220.79       75TH       86.93         208.15       80TH       81.95       222.36       80TH       87.54
208.15 80TH 81.95 222.36 80TH 87.54
AAA 1M
209.47 85TH 82.47 224.16 85TH 88.25
211.18 90TH 83.14 226.39 90TH 89.13
213.74 95TH 84.15 229.53 95TH 90.36
215.40 97TH 84.80 231.41 97TH 91.11
215.40 97TH 84.80 231.41 97TH 91.11 216.60 98TH 85.28 232.69 98TH 91.61

## (D54) VERTICAL WRIST HEIGHT, STITING

The vertical distance between a sitting surface and the stylion landmark on the right wrist of a subject sitting erect reaching straight overhead is calculated as follows: OVERHEAD FINGERIIP REACH, SITTING minus HAND LENGIH.

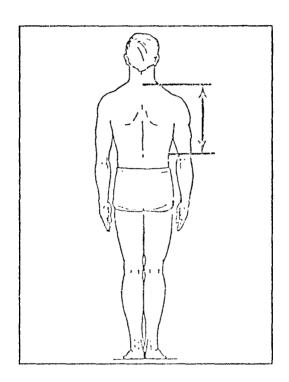


# VARIABLE NO. (D54)—VERTICAL WRIST HEIGHT, SITTING FEMALES MALES

THE SUMMARY STA	ATISTICS INCHES	THE SUMMARY STATISTICS CENTIMETERS INCHES
118.01 MEAN	46.46	124.54 MEAN 49.03
0.21 SE(MEAN	V) 0.08	
3.80 ST DET		
0.15 SE(SD)		5.05 ST DEV 1.99
0.13 51(50)	0.08	<b>0.1</b> 6 SE(SD) 0.06
105.60 MINIMUN	1 41.57	110.20 MINIMUM 43.39
129.40 MAXIMUN	I 50.94	
		138.60 MAXIMUM 54.57
COEFF. OF VARIATIO	N 3.2%	COEFF. OF VARIATION 4.1%
SYMMETRYVETA	I 0.13	SYMMETRYVETA I 0.03
KURTOSISVETA I	I 3.10	KURICSISVETA II 2.88
		viiii 11 2.00
NUMBER OF SUBJECTS	334	NUMBER OF SUBJECTS 487
PERCENTTI	FG	
CENTIMETERS	INCHES	PERCENTILES
	TIACHES	CENTIMETERS INCHES
109.30 1ST	43.03	112.35 1ST 44.23
110.40 2ND		
111.07 3RD		
111.95 5TH		***
113.26 10TH		116.25 5TH 45.77
114.13 15TH		118.10 101H 46.50
		119.32 15TH 46.98
		120.27 20TH 47.35
115.41 25TH		121.09 25TH 47.67
115.94 30TH		121.82 30TH 47.96
116.44 35TH		122.51 35TH 48.23
116.92 40TH	46.03	123.16 40TH 48.49
117.39 45TH	46.22	123.79 45TH 48.74
117.86 50TH	46.40	124.43 50TH 48.99
118.33 55TH	46.59	.0.55
118.82 60TH		
119.33 65TH		13.30
119.87 70TH		126.41 65TH 49.77
120.47 75TH		127.13 70TH 50.05
		127.92 75TH 50.36
121.15 80TH	47.70	128.81 80TH 50.71
121.95 85TH	47.70 48.01	
121.95 85TH 122.99 90TH	47.70 48.01 48.42	128.81 80TH 50.71
121.95 85TH 122.99 90TH 124.54 95TH	47.70 48.01 48.42 49.03	128.81 80TH 50.71 129.85 85TH 51.12 131.16 90TH 51.64
121.95 85TH 122.99 90TH 124.54 95TH 125.57 97TH	47.70 48.01 48.42 49.03	128.81 80TH 50.71 129.85 85TH 51.12 131.16 90TH 51.64 133.08 95TH 52.39
121.95 85TH 122.99 90TH 124.54 95TH	47.70 48.01 48.42 49.03	128.81 80TH 50.71 129.85 85TH 51.12 131.16 90TH 51.64 133.08 95TH 52.39 134.29 97TH 52.87
121.95 85TH 122.99 90TH 124.54 95TH 125.57 97TH	47.70 48.01 48.42 49.03 49.44	128.81 80TH 50.71 129.85 85TH 51.12 131.16 90TH 51.64 133.08 95TH 52.39

## (D55) VAIST EACK, VERTICAL (PANURAL INTERNATION)

The vertical distance between the cervicale landmark at the base of the back of the neck and the level of the waist at its natural indentation is calculated as follows: CERVICALE HEIGHT minus WAIST HEIGHT (NATURAL INDENTATION).



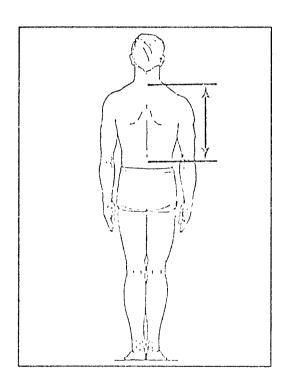
## VARIABLE NO. (D55)—WAIST BACK, VERTICAL (NATURAL INTERVIATION)

## FEMALES

	MMARY STAT	ISTICS	THE SUM	MARY STAT	ISTICS
CENTIMET	ERS	INCHES	CENTIMETE		INCHES
36.58	MEAN	34.40	40.04		
		14.40	40.04		15.76
0.12		0.05	0.09		0.04
2.13		0.84	2.06	ST DEV	0.81
0.08	SE(SD)	0.03	0.07	SE (SD)	0.03
30.10	MINIMUM	11.85	34.00	MINIMUM	13.39
43.80			45.90	MAXIMUM	
COPER OF	VARIATION	F 60			
			COEFF. OF		
SYMMETRY—			Symetry—		
KURIOSIS-	VETA II	3.34	KURTOSIS—	-VETA II	2.86
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	487
				····	
I	PERCENTILES	3	Pi	RCENTILES	3
CENTIMETE	ERS	INCHES	CENTIMETER		INCHES
				_	11101112
31.93	1ST	12.57	35.30	1ST	13.90
32.60	2ND	12.83	35.88	2ND	
32.98	3RD	12.98	36.24	3RD	
33.44	5TH	13.17			
34.09	101H	13.42	36.72	5'IH	14.46
34.51			37.44	101H	14.74
	15TH	13.59	37.92	15TH	14.93
34.84	20TH	13.72	38.30	20TH	15.08
35.13	25TH	13.83	38.63	25TH	15.21
35.39	301H	13.93	38.93	30TH	15.33
35.64	35TH	14.03	39.21	35TH	15.44
35.89	40TH	14.13	39.48	40TH	15.54
36.14	45TH	14.23			
36.39			39.73	45TH	15.64
		14.33	<b>39.</b> 99	50TH	15.75
36.66	55TH	14.43	40.25	55TH	15.85
36.93	60IH	14.54	40.52	60TH	15.95
37.22	651H	14.66	40.80	65TH	16.06
37.55	70TH	14.78	41.09	701H	16.18
37.90	75TH	14.92	41.41		
38.32	80IH			75TH	16.30
-		15.09	41.77	HI08	16.45
38.81	85TH	15.28	42.19	85TH	16.61
39.46	90TH	15.53	42.73	90TH	16.82
40.43	95TH	15.92	43.52	95TH	17.13
41.05	97TH	16.16	44.02	971H	17.33
41.50	98TH	16.34	44.38		
42.15	99TH	16.60		98TH	17.47
3 LI 6 A.J	JJ111	10.00	44.94	99TH	17.69

## (D56) WALST EACK, VERTICAL (CMTWALICM)

The vertical distance between the cervicale landmark at the base of the back of the neck and the waist at the level of the navel (cmphalion) is calculated as follows: CERVICALE HEIGHT minus WAIST HEIGHT (CMFHALION).



## VARIABLE NO. (D56)—VALST BACK, VERTICAL (CMPHALION)

## FEMALES

			<del>-</del>			
THE SUMM	ARY STAT	TSTICS		ffre cra	ABDU oma	Y
CENTIMETER		INCHES		THE SUR	Mary stat	
		THOTES		CENTIMETE	RS	INCHES
44.06	MEAN	17.35		46.68	MEAN	18.38
	SE (MEAN)	0.04			SE (MEAN)	0.04
	ST DEV	0.81		2.30	ST DEV	
0.08	SE(SD)	0.03		0.07	SE(SD)	
25.50					011(01)	0.05
	MUNIMUM	14.80		38.80	MINIMUM	15.28
52.00 1	MUMIXAM	20.47		53.10		
COEFF. OF V		4.6%		CEFF. OF	WADTAUTOM	4.9%
SYMMETRY	-VETA I			SYMMETRY		
KURTOSIS	-VETA II	3.69		KURTOSIS		
		0.02		MORICOIS	VEIA II	2.99
NUMBER OF SU	JBJECTS	334		NUMBER OF	SUBJECTS	487
raci	CENTILE	2	-			
CENTIMETERS		INCHES		. P.	ERCENTILE	3
	•	THUTES		CENTIMETE	RS	INCHES
39.49	1ST	15.55		41.15	1ST	16.20
40.00	2ND	15.75		41.87	2ND	16.49
49.33	3RD	15.88		42.31	3RD	16.66
40.79	5TH	16.06		42.88	5TH	16.88
41.51	10TH	16.34		43.73	10TH	17.22
41.99	15TH	16.53		44.29	15TH .	
42.38	20TH	16.68		44.73	SOIH	
42.70	25TH	15.81		45.11	25IH	17.61 17.76
43.00	30TH	16.93		45.46	30TH	
427	35TH	17.03		45.77		17.90
43.52	40TH	17.14		46.07	35TH	18.02
77.د4	45TH	17.23		46.37	40TH	18.14
44.02	50TH	17.33		46.66	45711	18.26
44.26	55TH	17.43		46.95	50TH	18.37
44.51	60TH	17.52			55TH	18.49
44.77	65TH	17.63		47.25	60TH	18.60
45.04	70TH	17.73		47.56	65TH	18.73
45.34	75TH	17.85		47.89	70TH	18.85
45.68	80TH	17.03		48.25	75TH	19.00
46.09	85TH	18.14		48.65	HT08	19.15
46.62	90TH	18.35		49.11	85TH	19.33
47.46	95TH			49.69	90TH	19.56
48.05		18.69		50.53	95TH	19.89
48.52	97TH	18.92		51.05	97TH	20.10
	98TH	19.10		51.41	98TH	20.24
49.31	99TH	19.41		51.95	99TH	20.45

## (D57) WAIST-EUTTOCK DEOP (PATURAL INDEMENTATION)

The difference between the circumference of the waist at the level of its natural indentation and the torso circumference at the level of the maximum protrusion of the right buttock is calculated as follows: EUTTOCK CIRCUMFERENCE minus WAIST CIRCUMFERENCE (NATURAL INDENTATION).

## VAPIABLE NO. (D57) -- WALST-EUITOCK EROP (NATURAL INDENTATION)

## FEMALES

THE SUMMARY				Mary Stati	STICS
CENTIMETERS	, INC	HES	CENTIMETE	RS	INCHES
24.75 M	EAN 9	.74	13.51	MEAN	5.32
0.27 SE(	MEAN) C	.11	0.20	SE (MEAN)	0.08
•	•	•95	4.32	ST DEV	1.70
		.08	0.14	SE(SD)	0.05
0123	(02)	• • • •	0.14	55(55)	0.00
	IMUM 4		-3.10	MINIMUM	-1.22
37.50 MAX	IMUM 14	.76	26.90	MUMIKAM	10.59
COEFF. OF VARIA	ATION 20	.1%	COEFF. OF	VARTATION	32.0%
SYMMETRY-VI		.13	SYMMETRY		-0.27
KURICSISVE	_	.88	KURTOSIS		3.26
NUMBER OF SUBJ	ECIS	334	NUMBER OF	SUBJECTS	487
				**************************************	
PERCE	VITLES		F	ERCENTILES	}
CENTIMETERS	INC	HES	CENTIMETE	RS	INCHES
12.41	1ST 4	.89	2.37	1ST	0.93
13.86	2ND 5	.46	4.08	2ND	1.61
14.80	3RD 5	.83	5.07	3RD	2.00
16.10	5TH 6	.34	6.31	5TH	2.48
18.11	LOTH 7	.13	8.06	1011	3.17
19.46	L5TH 7	.66	9.16	15TH	3.61
20.51 2	8 HTO	.07	10.01	20TH	3.94
		.43	10.73	25TH	4.22
		.74	11.37	30TH	4.48
		.03	11.96		
		.29		35TH	4.71
			12.52	40TH	4.93
		.55	13.07	45TH	5.14
		.80	13.61	50TH	5.36
		.04	14.15	551H	5.57
		.29	14.70	60TH	5,79
	55TH 10	.54	15.27	65TH	6.01
27.44	70TH 10	.80	15.87	70TH	6.25
28.16	75TH 11	.08	16.51	75TH	6.50
		.40	17.23	80TH	6.79
		.76	18.05	85TH	7.11
		.21	19.06	90TH	7.50
		.90	20.44	95TH	
		.36			8.05
			21.22	97TH	8.35
		.72	21.72	98TH	8.55
36.32	9TH 14	.30	22.35	99TH	8.80

## (D58) WALST-EUTTOCK EROP (CMEHALICH)

The difference between the circumference of the waist at the level of the navel (cmphalion) and the torso circumference at the level of the maximum protrusion of the right buttock is calculated as follows: EUTTOCK CIRCUMFERENCE minus WAIST CIRCUMFERENCE (CMEMALICN).

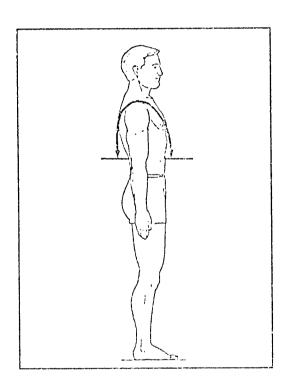
## VARIABLE NO. (D53) -WAIST-BUTTOCK DROP (CMPHALION)

## FEMALES

THE SUMMARY ST	PATISTICS INCHES	THE SUMMARY STATISTICS CENTIMETERS INCHES
17.25 MEAN 0.33 SE(MFF 6.06 ST DE 0.23 SE(SI	N) 0.13 V 2.38	10.31 MEAN 4.06 0.20 SE(MEAN) 0.03 4.51 ST DEV 1.78 0.14 SE(SD) 0.06
0.40 MINIM 34.00 MAXIM		-4.40 MINIMUM -1.73 21.40 MAXIMUM 8.43
COEFF. OF VARIATI SYMMETRY——VETA KURIOGIS——VETA NUMBER OF SUBJECT	I -0.28 II 3.10	COEFF. OF VARIATION 43.88 SYMMETRYVETA I -0.07 KURTOSISVETA II 2.70 NUMBER OF SUBJECTS 487
PERCENIT CENTIMETERS	LES INCHES	PERCENTILES CENTIMETERS INCHES
	T 0.51 D 1.21 D 1.70 H 2.40 H 3.52 H 4.27 H 4.85 H 5.32 H 5.73 H 6.09 H 6.42 H 6.73 H 7.02 H 7.29 H 7.56	CENTIMETERS INCHES  -0.44 1ST -0.17 0.98 2ND 0.39 1.82 3RD 0.71 2.89 5TH 1.14 4.49 10TH 1.77 5.55 15TH 2.18 6.39 20TH 2.52 7.13 25TH 2.81 7.81 30TH 3.07 8.44 35TH 3.32 9.05 40TH 3.56 9.64 45TH 3.80 10.24 50TH 4.03 10.85 55TH 4.27 11.47 60TH 4.51 12.11 65TH 4.77
20.57 70TI 21.29 75TI 22.08 80TI 23.00 85TI 24.19 90TI 26.18 95TI 27.73 97TI 29.05 98TI 31.54 99TI	H 8.10 H 8.38 H 8.69 H 9.05 H 9.52 H 10.31 H 10.92 H 11.44	12.11 651H 4.77 12.79 70TH 5.04 13.52 75TH 5.32 14.34 80TH 5.64 15.26 85TH 6.01 16.37 90TH 6.44 17.83 95TH 7.02 18.61 97TH 7.33 19.07 98TH 7.51 19.54 99TH 7.69

## (D59) WAIST-WAIST (NATURAL INCLUMENTATION) OVER STOULDER

The vertical circumference of the upper torso between the front of the waist at its natural indentation passing up over the right nipple on men or the right bustpoint on women, over the shoulder and down the back to the waist at the level of its natural indentation is calculated as follows: VERTICAL TRUNK CIRCUMFERENCE (USA) minus CROTCH LENGTH (NATURAL INDENTATION).



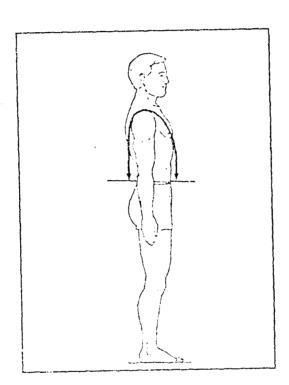
VARIABLE NO. (D69) -- WALIST-WALIST (NATURAL INCONTACTION) OVER SHOULDER

~~	T	

			_			
THE SUM	Mary Stati	STICS		THE SUN	Mary Stati	STICS
CENTIMETE	RS	INCHES		CENTIMETI	ERS	INCHES
80.28	MEAN	31.60		88.40	MEAN	34.80
0.25	SE (MEAN)	0.10		0.19		
4.57	ST DEV	1.80		4.19		1.65
0.18	SE(SD)	0.07		0.13		0.05
					•	
	MINIMUM				MUNIMUM	
97.30	MAXIMUM	38.31		102.40	MUMIXAM	40.31
COEFF. OF	VARIATION	5.7%		CCEFF. OF	VARIATION	4.7%
SYMMETRY-		0.35		SYMMETRY-		
KURTOSIS-		3.65			VETA II	
MINERO OF	SUBJECTS	324		אין מסטים אין	SUBJECTS	487
HOPEMAN OF	DOIDECIS	334	_	NUMBER OF	SODIECIS	407
T	TETTATION STITE TO THE	•		,	THE STATE OF	•
_	PERCENTILES				PERCENTILES	
CENTIMETE	7.C	INCHES		CENTIMETI	265	INCHES
69.40	1ST			78.22		30.80
71.04	2ND	27.97		79.61	2ND	
71.98	3RD	28.34 28.80		80.46	3RD	31.68
73.15				81.57	5TH	
74.78	10TH	29.44		83.20	10TH	32.75
75.80	15TH	29.84		84.24	15TH	33.17
76.58	201H	30.15		85.04	20TH	33.48
77.25	25TH	30.41		85.72	25TH	
77.86	HICE	30.65		86.32	30TH	33.98
78.42	35TH	30.87		86.86		
78.95	40TH	30.87 31.08		87.38		34.40
79.48				87.87		
80.02	45TH 50TH	31.50		88.36		34.79
80.56	55714	31.72		88.85		
81.12	GOIH			89.35	60TH	35.18
81.72	65IH			89.86		
82.37	701H			90.41	701H	35.60
83.08	751H			91.02	751H	
83.91	HIO8	33.04		91.71	80111	36.11
84.90	85TH			92.53		36.43
86.20	90TH	33,94		93.62	901H	
88.20	95TH			95.35	95 <b>TH</b>	
89,54	97TH	35.25		96.56	971H	38.02
90.53	98TH			97.51	98TH	
92.08	99TH	36.25		99.11	99111	39.02

## (D60) WAIST-VALET (CHPHALICH) OVER SECULLER

The vertical circumference of the upper torso between the front of the waist at the navel (cmphalicn) passing up over the right nipple on men or the right bustpoint on women, over the shoulder and down the back to the waist at the level of the navel is calculated as follows: VERTICAL TRUNK CIRCUMFERENCE (USA) minus CROTCH LEAGHH (CMPHALICN).



## VARIABLE NO. (D60) — WAIST-WAIST (CMHALICN) OVER SHOULDER FEMALES MALES

THE SUM	MARY STAT	ISTICS	T	HE SUM	MARY STATI	STICS
CENTIMETE		INCHES		TIMETE		INCHES
			•			
95.12	MEAN	37.45	16	01.26	MEAN	39.86
0.26	SE (MEAN)	0.10		0.22	SE (MEAN)	0.08
	ST DEV	1.84		4.75	, ,	1.87
0.18	SE(SD)	0.07		0.15	SE(SD)	0.06
0.10	DE (DD)	0.07		0.15	OL (OD)	0.00
82.80	MUNITAUM	26.00			MUNIMUM	
110.00	MAXIMUM	433.14	1:	14.70	MUMIXAM	45.16
COEFF. OF	VARIATION	4.9%	∞ef:	F. OF	VARIATION	4.7%
SYMMETRY-					VETA I	
KURTOSIS		3.27			VETA II	
		•••				31,25
NUMBER OF	SUBJECTS	334	NUMBI	ER OF	SUBJECTS	487
•						
P.	ERCENTILE	3	4	F	PERCENTILES	5
CENTIMETE	RS	INCHES	CEN	TIMETE	PS .	INCHES
84.83	. 1ST	33.40	9	90.78	1ST	35.74
85.91	2ND	33.82	•	92.01	2ND	36.23
86.64	3RD	34.11		92.76	3RD	36.52
87.66	5TH	34.51		93.76	5014	36 92
89.29	10TH	35.15		95.29	10TH	37.52
90.39	15TH	35.59		96.34	15TH	37.93
91.27	20TH	35.93		97.18	20TH	38.26
92.02	25TH			97.93	25TH	
92.70		36.49		98.61	30 <b>1H</b>	
93.31	· 35TH	36.74	•	99.25	35TH	
93.90	40TH	36.97	:	99.88	40TH	39.32
94.46	45TH	37.19	1	00.49	45TH	39.56
95.02	50TH	37.41	14	01.10	50TH	39.80
95.58	55TH	37.63	1	01.73	55TH	
96.14	60TH	37.85		02.36	601H	40.30
96.73	65TH	38.08		03.03	65TH	
97.36	70TH	38.33				
				03.74	70TH	
98.04	75TH	38.60		04.52	75TH	
98.83	HTOS	38.91		05.38	HIOS	41.49
99.77		39.28		06.38	85TH	41.88
101.02	901H	39.77	10	07.61	90TH	42.37
103.06	95TH	40.57	10	09.35	95TH	43.05
104.53	97TH	41.16	1	10.37	97TH	
105.72	HT86	41.62		11.05	HT86	43,72
107.79	99TH	42.44		11.96	99TH	
			1.	,	222	

#### CHAPTER VI

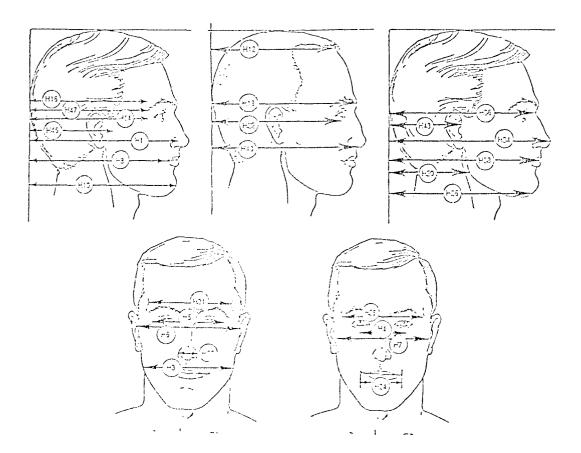
#### THE HEADBOARD MEASUREMENTS

The head and face are perhaps the most difficult body parts to be adequately described by traditional linear measurement techniques because of the great variability of head and facial dimensions, their associated poor correlations, and the difficulty of maintaining the subject's head in the required position. A special automated headboard device (AHD) for measuring three-dimensional coordinates of landmark locations on the head and face was developed for use in the 1988 Anthropometric Survey¹⁰. The device was programmed to locate 26 head and face landmarks in three dimensional space. The points were selected on the basis of their usefulness in the design and construction of helmets, respirators, goggles, and other personal protective equipment.

Sixteen head and face dimensions were measured by traditional means and are reported in Chapter III. These are supplemented by the data obtained from the AHD, in which points were located in three-dimensional space by the simultaneous determination of distances along the Z-axis (height), the X-axis (depth), and the Y-axis (breadth). For ease of reporting, and to facilitate comparison with previously reported headboard data, these data are given for each axis separately, using the same standard statistics as are used in reporting the standard and derived dimensions.

A visual index for the 48 head and face dimensions appears on the following pages. Data pages which include measurement descriptions, summary statistics, and percentile tables follow.

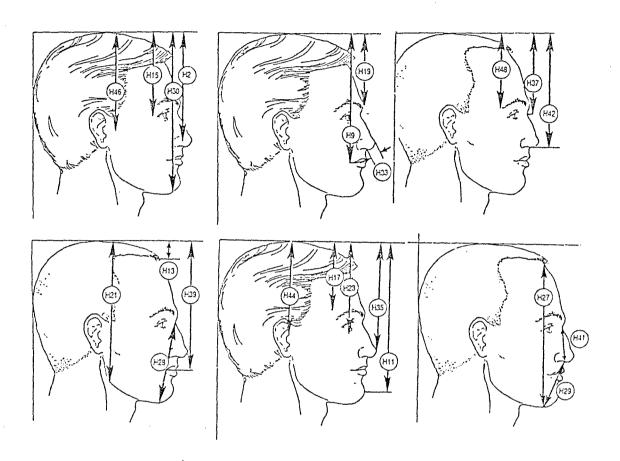
# VISUAL INDEX - HEAD MEASUREMENTS



- (H1) ALARE-BACK OF HEAD
- (H3) BIGONIAL BREADTH
- (H4) BIINFRAORBITALE BREADTH
- (H5) BIOCULAR BREADTH, MANIMUM
- (H6) BITRAGION BREADTH
- (H7) BIZYGOMATIC BREADTH
- (4B) CHELION-BACK OF HEAD
- (H19) CHIN BACK OF HEAD
- (H12) CRINION-BACK OF HEAD
- (HI4) ECTOOPBITALE-BACK OF HEAD
- (HIS) FRONTOTEMPOPALE BACK OF HEAD
- (HIS) GLABELLA-BACK OF HEAD
- (H10) GONTON-BACK OF HEAD

- (H22, INFRAORBITALE-BACK OF HEAD
- (H24) LIP LENGTH
- (H25) MAXIMUM FRONTAL BREADTH
- (H26) MENTON-BACK OF HEAD
- (HBI) MINIMUM FRONTAL BREADTH
- (H31) NOSE BREADTH
- (H34) PRONASALE-BACK OF HEAD
- (H36) SELLION-BACK OF HEAD
- (HER) STOMION-BACK OF HEAD
- (H10) SUBNASALE-BACK OF HEAD
- (H43) TRAGION-BACK OF HEAD
- (H45) ZYGION-BACK OF HEAD
- (H47) ZYGOFRONTALE-BACK OF HEAD

# VISUAL INDEX - HEAD MEASUREMENTS (Continued)



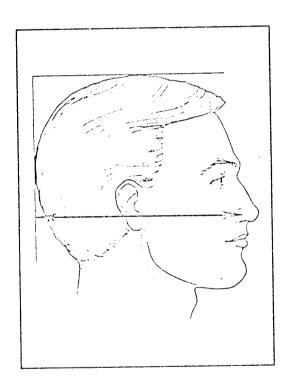
- (H2) ALARE-TOP OF HEAD
- (H9) CHEILION-TOP OF HEAD
- (H11) CHIN-TOP OF HEAD
- (H13) CRINION-TOP OF HEAD
- (H15) ECTOORBITALE-TOP OF HEAD
- (H17) FRONTOTEMPORALE-TOP OF HEAD
- (H19) GLABELLA-TOP OF HEAD
- (H21) GONION-TOP OF HEAD
- (H23) INFRAORBITALE-TOP OF HEAD
- (H27) MENTON-CRINION LENGTH
- (H28) MENTON-SELLION LENGTH

- (H29) MENTON-SUBNASALE LENGTH
- (H30) MENTON-TOP OF HEAD
- (H33) NOSE PROTRUSION
- (H35) PRONASALE-TOP OF HEAD
- (H37) SELLION-TOP OF HEAD
- (H39) STOMION-TOP OF HEAD
- (H41) SUBNASALE-SELLION LENGTH
- (H42) SUBNASALE-TOP OF HEAD
- (H44) TRAGION-TOP OF HEAD
- (H46) ZYGION-TOP OF HEAD
- (H48) ZYGOFRONTALE-TOP OF HEAD

# HEADBOARD MEASUREMENT DESCRIPTIONS AND PILOT SUMPARY STATISTICS

#### (H1) ALARE-BACK OF HEAD

The horizontal distance between the alare landmark on the side of each nostril and the vertical plane tangent to the back of the head is measured. The values of the right and left dimensions are averaged.



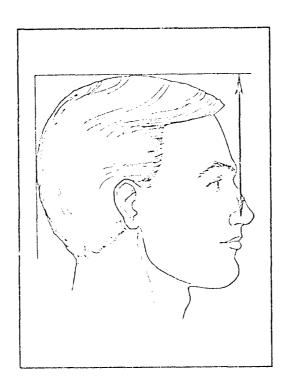
# VARIABLE NO. (H1) -- ALARE-BACK OF HEAD

# FEMALES

THE SUM CENTIMETE	Mary Stati	STICS INCHES	THE SUMMARY STAT CENTIMETERS	ISTICS INCHES
		2.02		
19.04	MEAN	7.50	19.91 MEAN	7.84
	SE (MEAN)		0.03 SE(MEAN)	
	ST DEV		0.68 ST DEV	
	SE (SD)		0.02 SE(SD)	
	MINIMUM		17.79 MINIMUM	
20.77	MAXIMUM	8.18	21.67 MAXIMUM	8.53
COEFF. OF	VARIATION	3.7%	COEFF. OF VARIATION	3.4%
SYMMETRY-				
KURTOSIS			KURIOSIS—VETA II	3.06
				• • • • • • • • • • • • • • • • • • • •
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS	474
q	ERCENTILES	3	PERCENITLE	s
CENTIMETE		INCHES	CENTIMETERS	INCHES
			Applicable it was when when we write and	
17.21	1ST	6.78	18.22 1ST	7.17
17.52	2ND	6.90	18.48 2ND	7.27
17.69	3RD	6.97	18-6/ 180	/ - 3 3
17.90	5TH	7.05	18.81 5TH	7.40
18.19	10TH	7.16	19.07 10TH	7.51
18.37		7.23	19.23 15TH	
18.50	20TH	7.28		7.62
18.61	25TH	7.33	20 47 2570	7 66
18.71	301H	7.36	19.47 251H 19.56 30TH	7.70
		7.40	19.65 35TH	7.74
18.80				
18.88		7.43	19.74 40IH	
	45TH		19.82 45TH	7.80
19.05	50TH	7.50	19.90 50TH 19.99 55TH	7.84
19.13	55TH	7.53	19.99 55TH	7.87
19.22	60IH	7.57	20.08 60TH	7.90
	65TH		20.17 65TH	7.94
19.40				7.98
19.51	75'IH	7.68	20.23 75TH	
19.63				8.07
19.76	85TH	7.78	20.63 85TH	8.12
19.94	901H	7.85	20.81 90TH	8.19
20.20	95TH	7.95	21.07 95TH	8.30
20.35	97TH	8.01	21.23 97TH	8.36
20.46	98TH	8.06	21.35 98TH	8.40
20.62	99TH	8.12	21.52 991H	8.47
20.02	کم کا باو فرد ف	0.12	21.5% 93111	0.27

#### (HS) ALARE-IOP OF HEAD

The vertical distance between the alare landwark on the side of the nostril and the horizontal plane tangent to the top of the head is measured. The values of the right and left dimensions are averaged.



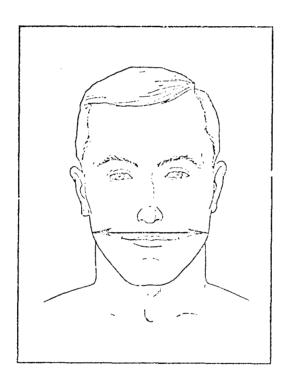
# VARIABLE NO. (H2) -ALARE-TOP OF HEAD

# FEMALES

			<del></del>		
THE SU	Mary Stati	STICS	THE :	SUMMARY STAI	ISTICS
CENTIMET	ERS .	INCHES	CENTIM		INCHES
			Total Table 11		manes
14.84		5.84	15.5	54 MEAN	6.12
0.04	SE (MEAN)	0.02	0.0	03 SE (MEAN)	0.01
0.69	ST DEV	0.27	0.0		
0.03	SE(SD)	0.01	0.0		0.01
				)2 OL(OD)	0.01
	MUNIMUM	4.94	13.7	76 MINIMUM	5.42
16.75	MAXIMIM	6.59	17.9	95 MAXIMIM	7.07
COEFF. OF	VARIATION	4.7%	क्रमंग्रहेश	OF VARIATION	4.2%
SYMMETRY-		0.07		YVETA I	
KURTOSIS-	-	3.33			
16146515	VEIR II	3.33	NUKI COLI	SVETA II	3.03
NUMBER OF	SUBJECTS	334	NUMBER (	OF SUBJECTS	474
			-		
τ	ERCENTILES				9
CENTIMETE		INCHES	CENTITAL	PERCENTILE	<del>-</del>
			CENTIM	LIERS	INCHES
13.12	1ST	5.16	14.1	16 1ST	5.58
13.39	2ND	5.27	14.2	27 2ND	5.62
13.54	3RD	5.33	14.3		5.65
13.73	5TH	5.41	14.4		5.70
14.00	10TH	5.51	14.6	<b>-</b>	5.78
14.16	15TH	5.57	14.8		
14.28	201H	5.62			
14.39	25TH		14.9		5.90
14.48		5.66	15.0		
	30TH	5.70	15.1		5.98
14.57	35TH	5.74	15.2	28 35TH	6.02
14.65	40TH	5.77	15.3		6.05
14.73	45TH	5.80	15.4	6 45TH	6.09
14.81	50TH	5.83	15.5	54 50TH	6.12
14.90	55TH	5.87	15.6	52 55TH	6.15
14.98	60TH	5.90	15.7		6.18
15.07	65TH	5.94	15.7		6.22
15.17	70TH	5.97	15.8		
15.28	75TH	6.02	15.9		6.25
15.40	80TH				6.29
15.55	85TH	6.06	16.0		6.34
	<del>_</del>	6.12	16.2		6.39
15.74	90TH	6.20	16.3		6.45
16.02	95TH	6.31	16.6		6.55
16.20	97TH	6.38	16.8	0 97TH	6.61
16.34	98TH	6.43	16.9	•	6.67
16.53	99TH	6.51	17.1		6.76

# (HB) BICCNIAL FRENDEH

The straight-line distance between the right and left genion landmarks on the corners of the jaw is measured.



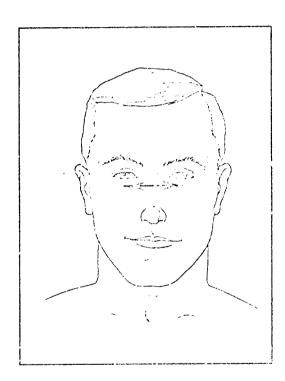
# VARIABLE MO. (H3)—BIGCNIAL ENEADTH

# FEMALES

THE SUM CENTIMETE	mary stat: Rs	ISTICS INCHES	THE SUMMARY STAT	ISTICS INCHES
10.81			12.04 MEAN	4.74
0.04	SE (MEAN)	0.02	0.04 SE (MEAN)	0.01
0.69	ST DEV	0.27	0.78 ST DEV	
0.03	SE(SD)		0.03 SE(SD)	
	(,	0002	0.03 55(55)	(·•OI
	MUNIMUM	3.44	MIMIMIM 08.0	3.86
14.42	MAXIMUM	5.68	14.50 MAXIMIM	5.71
COEFF. OF	VARTATTON	6 <b>4</b> %	COEFF. OF VARIATION	6.5%
SYMMETRY-	VETTA T	0.32		
KURIOSIS-			SYMMETRY—VETA I	
WKI(012-	VEIA II	4.79	KURICSISVETA II	2.96
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS	474
P	ERCENTILES	3	PERCENTILES	2
CENTIMETE		INCHES		
OLA (I II) III I		THUTTES	CENTIMETERS	INCHES
9.16	ist	3.61	10.30 1ST	4.06
9.39	2ND	3.69	10.51 2ND	4.14
9.52	3RD	3.75	10.64 3RD	4.19
9.70	5TH	3.82	10.81 5TH	4.26
9.96	101H	3.92	11.07 10TH	4.36
10.13	15TH	3.99		
10.26	20TH	4.04		4.43
10.37	25TH		11.38 20TH	4.48
		4.08	11.51 25TH	4.53
10.47	30TH	4.12	11.61 30TH	4.57
10.56	35TH	4.16	11.72 35TH	4.61
10.64	40TH	4.19	11.82 40TH	4.65
10.72	45TH	4.22	11.91 45TH	4.69
10.80	50TH	4.25	12.01 50TH	4.73
10.89	55TH	4.29	12.10 55TH	4.77
10.97	60TH	4.32	12.20 50TH	4.81
11.05	65TH	4.35	12.31 65TH	4.85
11.14		4.39		
11.24	75TH			4.89
11.35		4.43	12.55 75TH	4.94
	HITO8	4.47	12.69 80TH	4.99
11.48	85TH	4.52	12.85 85TH	5.06
11.65	90TH	4.59	13.07 90TH	5.15
11.91	95TH	4.69	13.40 95TH	5.28
12.08	97TH	4.76	13.62 97TH	5.36
12.21	98TH	4.81	13.79 98TH	5.43
12.42	99TH	4.89	14.06 99TH	5.53

# (H4) RIINFRACREPHALE EXHADIN

The straight-line distance between the right and left infraorbitale landmarks on the bottom edge of the bony eye sockets under the eyes is measured.



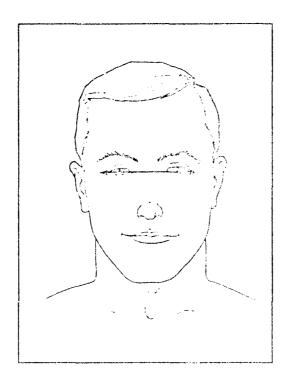
# VARIABLE NO. (14)—BLINFRACEBITALE ESTADIH

# FEMALES

	mary stati		THE SUMMARY STATI	
CENTIMETE	10	INCHES	CENTIMETERS	INCIES
6,59	MEAN	2.59	6.84 MFAN	2,69
0.03	MEAN SE (MEAN)	0.01	6.84 MEAN 0.02 SE(MEAN)	0.01
0.47	ST DEV	0.19	0.42 ST DEV	0.17
0.02	SE(SD)	0.01	0.01 SE(SD)	0.01
0.(12	02(02)	0.01	0.01 55(55)	0.01
5.13	MINIMUM MAXIMUM	2.02	5.81 MINIMUM 8.08 MAXIMUM	2.29
7.82	MAXIMUM	3.08	MUMIXAM 80.3	3.18
WEEE OF	VARIATION	7 12	COEFF. OF VARIATION	6 13
	VETA I		SYMMETRY—VETA I	
	VETA II		KURTOSIS—VETA II	
MONGCOLD	ALTEN II	2.72	WIGOID- VIIA II	3.04
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS	474
	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·
F	ERCENTILES	:	PERCENTILES CENTIMETERS	3
CENTTHETE		INCHES	CENTIMETERS	DICHES
				2.022
5.44	1ST	2.14	5.87 1ST	2.31
5.61	2ND	2.21	6.01 2ND	2.37
5.71	3RD	2.25	6.10 3RD	2.40
5.84	5 <b>TH</b>	2.30	6.19 5TH	2.44
6.01			6.33 10TH	
6.11	101H 15TH	2.41	6.42 15TH	
6.19		2.44		2.55
6.27		2.47	६ इ.६ - २५१३	2 52
6.33	30TH	2.49	6.60 30TH	2.60
6.39		2.52	6.65 35TH	2.62
6.45	40TH	2.54	6.70 40TH	
6.51	45TH		6.75 45TH	
6.57	SOTH	2.59	6.80 50TH	
6.63		2.61	6.36 55TH	
6.69	60TH	2.64	6.91 60M	2.72
6.76	65TH	2.66	6.97 65IH	2.74
6.83		2.69	7.04 701H	
6.91	75TH	2.72	7.11 75TH	
6.99	80TH			2.83
7.10			7.19 80111 7.29 85TH	
7.22	85TH 90TH	2 91	7.29 851R 7.41 90TH	
7.40				
		2.91		
7.50	97TH 98TH	2.95	7.71 97TH	
7.57			7.80 98TH	
7.65	99TH	3.01	7.91 991H	3.11

#### (H5) BICCULAR ESTADEH, MAXICULI

The straight-line distance between the right and left ectoorbitale landmarks just behind each bony eye socket at the level of the outer corners of the eyes is measured.



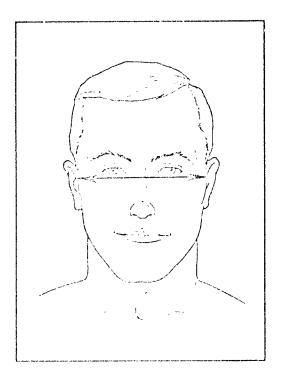
# VARIABLE NO. (H5)—BICCULAR ENTADIH, MAXIMM

# **FEMALES**

THE SUMMARY STAT CENTIMETERS	ISTICS INCHES	THE SUMMARY STATE CENTIMETERS	ISTICS INCHES
11.87 MEAN 0.03 SE (MEAN) 0.51 ST DEV 0.02 SE (SD)		12.16 MEAN 0.02 SE(MEAN) 0.49 ST DEV 0.02 SE(SD)	
10.43 MINIMUM 13.37 MAXIMUM	4.11 5.26	11.01 MINIMUM 13.63 MAXIMUM	4.33
COEFF. OF VARIATION SYMMETRY—VETA I KURIOSIS—VETA II NUMBER OF SUBJECTS	4.3% -0.02 2.93	COEFF. OF VARIATION SYMMETRY—VETA I KURTOSIS—VETA II NUMBER OF SUBJECTS	0.20 2.75
PERCENTILES		PERCENTIFS	
	INCHES	Carlo Service and Carlo an	INCHES
11.73 40TH 11.80 45TH 11.86 50TH 11.93 55TH 11.99 60TH 12.06 65TH 12.14 70TH 12.22 75TH	4.18 4.25 4.29 4.34 4.42 4.47 4.50 4.54 4.57 4.59 4.62 4.65 4.65 4.70 4.72 4.75 4.78 4.81	11.12 1ST 11.22 2ND 11.28 3RD 11.38 5TH 11.53 10TH 11.64 15TH 11.73 20TH 11.81 25TH 11.88 30TH 11.95 35TH 12.02 40TH 12.02 40TH 12.08 45TH 12.14 50TH 12.14 50TH 12.21 55TH 12.28 60TH 12.28 60TH 12.35 65TH 12.42 70TH 12.42 70TH	4.38 4.42 4.44 4.48 4.54 4.53 4.65 4.65 4.68 4.70 4.73 4.73 4.73 4.81 4.83 4.89 4.92
12.31 80TH 12.41 85TH 12.54 90TH 12.73 95TH 12.84 97TH 12.91 98TH 13.01 99TH	4.85 4.89 4.94 5.01 5.05 5.08 5.12	12.59 80°H 12.69 85°H 12.82 90°H 13.00 95°TH 13.12 97°TH 13.19 98°TH 13.31 99°TH	4.96 5.00 5.05 5.12 5.16 5.19 5.24

# (H6) PITPAGICN EXEMPTH

The straight-line distance between the right and left tragion lardwarks on the cartilaginous flaps in front of each earhole is measured.



# VARIABLE NO. (H6)—BITPAGICN EREADIN

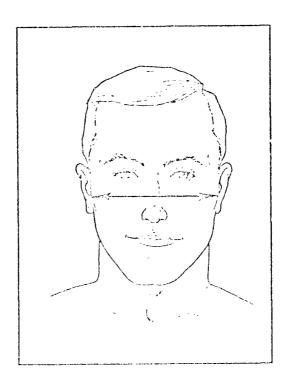
FEMALES

Males

					•
THE SIN	Mary Stati	STICS	THE SIM	MARY STAT	TSTTCS
CENTIMETE		INCHES	CENTIMETE		INCHES
CENTIMET	w.co	ومثلاتكاليك	CERATION	u vo	THOMES
	MEAN		14.43		
0.03	SE (MEAN)	0.01	0.03	SE (MEAN)	0.01
0.51	ST DEV	0.20			
0.02	ST DEV SE(SD)	0.01	0.02	ST DEV SE(SD)	0.01
0.02	DITODY	0.01	0.02	DL (DL)	0.01
	MINIMUM			MUNIMUM	
15.68	MAXIMUM	6.17	16.24	MAXIMUM	6.39
				•	
COEFF. OF	VARIATION	3.8%	COEFF. OF	VARIATION	4.0%
SYMMETRY-			SYMMETRY-		
KURICSIS-		3.45	KURTOSIS—		
KURIUS15	VEIA II	3.45	WKI0515	VEIN II	3.12
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	474
F	PERCENITIES	;	F	PERCENTILE	S
CENTIMETE		INCHES	CENTIMETE		INCHES
CALL LINEAR	,		Carana		وهنديها
10 54	3 (37)		20.24	a crm	F 3.77
12.54		4.94	13.14	lst	
12.63	SMD	4.97	13.30	2ND	5.24
12.69	3RD	5.00	13.40	3RD	5.27
12.80	5TH	5.04	13.53	5TH	5.32
12.99	10111		13.72		
13.12	157H	5.16	13.85		
13.23	20TH		13.95		
13.32	25TH	5.24	14.04		
13.40	301H	5.27	14.12	30TH	5.56
13.47	35TH	5.30	14.20	35TH	5.59
13.54	40TH	5.33	14.27	40TH	5.62
13.60	45TH		14.34	45TH	
13.66	501H	5.38		501H	
			14.41		
13.73	551H	5.40	14.48	55TH	
13.79	601H	5.43	14.56	601H	5.73
13.85	65TH	5.45	14.63	651H	5.76
13.91	70TH	5.48	14.72	70TH	5.79
13.98	75'IH	5.51	14.81	75TH	
14.06	SOLH	5.54			
			14.91	80111	
14.15	85111	5.57	15.03	85TH	5.92
14.27	907H	5.62	15.19	901H	5.98
14.46	95TH	5.69	15.42	95TH	6.07
14.60	97'IH	5.75	15.57		
14.71		5.79	15.69	98771	6.13
14.92		5.88			
1.48 * 21.50	97H	3.58	15.86	99TH	6.24

# (H7) BEMICCIDATE ETIMBET

The straight-line distance between the right and left zygion landmarks on the zygomatic arches, or upper cheekbones, is measured.



# VARIABLE RO. (HV) — BIZYGCZYNTIC BRENDZH

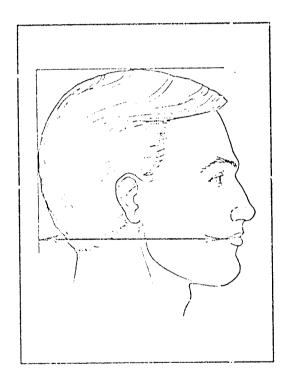
# FEMALES

#### HALES

	***************************************			
THE SIE	MARY STAT	וכחיורפ		
CENTIMET			THE SUMMARY STATE	ISTICS
CEMITATION	IAC)	INCHES	CENTIMETERS	INCHES
13.55	MEAN	5.33	14.28 MEAN	5.62
0.03	SE (MEAN)	0.01	0.03 SE(MEAN)	
0.56	ST DEV	0.22		
0.02	SE(SD)	0.01		0.23
	()	0.01	0.02 SE(SD)	0.01
	MINIMIM	4.71	12.34 MINIMUM	4.86
15.43	MAXIMIM	6.07	16.06 MAXIMM	6.32
COEFF. OF	VARIATION	4.1%	COEFF. OF VARIATION	4 20
SYMETRY—	VETA T	0.26		
KURTOSIS-		3.31	SYMPETRY——VETA I	0.14
		J•J3	KURTOSISVETA II	3.22
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS	474
	**************************************			
	ERCENTILES		PERCENTILES	
CENTIMETE	RS	INCHES		INCHES
				Liverage
12.28	1ST	4.84	13.03 15T	5.13
12.45	2ND	4.90	13.17 2ND	5.19
12.55	3RD	4.94	13.26 3RD	5.22
12.68	51H	4.99		
12.87	1011	5.07		5.27
12.99	15TH	5.12		5.34
13.09	20TH	5.15	13.69 15TH	5.39
13.18	25TH	5.19	13.79 20TH	5.43
13.25			13.88 25TH	5.47
13.32	30114	5.22	13.97 30TH	5.50
	35TH	5.24	14.04 35TH	5.53
13.39	401H	5.27	14.11 40TH	5,56
13.45	45TH	5.30	14.19 45TH	5.59
13.52	50TH	5.32	14.26 50TH	5.61
13.59	551H	5.35	14.33 55TH	5.64
13.66	601H	5.38	14.40 60TH	5.67
13.73	65TH	5.41	14.48 651H	
13.81	70IH	5.44	14.57 701H	5.70
13.90	751H	5.47		5.73
14.01	HTV8	5.51		5.77
14.13	85TH	5.56	14.76 80TH	5.81
14.28	90TH		14.89 85TH	5.86
14.53	95TH	5.62	15.04 90TH	5.92
14.70		5.72	15.28 95TH	6.02
	97TH	5.79	15.43 971H	6.08
14.82	98 <b>TH</b>	5.84	15.55 98TH	6.12
15.02	99TH	5.91	15.73 99TH	6.19
				J + L.J

#### (HB) CHETTHON-ENCK OF HEAD

The horizontal distance between the cheilien landmark at the corner of the closed mouth and the vertical plane targent to the back of the head is measured. The values of the right and left dimensions are averaged.



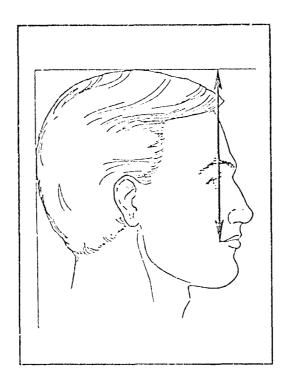
# VARIABLE NO. (HE) -- CHETLICY-EACK OF HEAD

FEMALES

THE SUMMARY STATISTICS CENTIMETERS INCHES	THE SUMMARY STATISTICS CENTIMETERS INCHES
17.65 MEAN 6.95 0.04 SE(MEAN) 0.02 0.78 ST DEV 0.31 0.03 SE(SD) 0.01	18.30 MEAN 7.21 0.03 SE(MEAN) 0.01 0.74 ST DEV 0.29 0.02 SE(SD) 0.01
14.79 MINIMUM 5.82 19.79 MAXIMUM 7.79	16.21 MINIMUM 6.38 20.71 MAXIMUM 8.15
COEFF. OF VARIATION 4.4% SYMMETRY—VETA I -0.01 KURICSIS—VETA II 3.31  NUMBER OF SUBJECTS 334	COEFF. OF VARIATION 4.1% SYMMETRY—VETA I 0.13 KURTOSIS—VETA II 3.23 NUMBER OF SUBJECTS 474
PERCENTILES CENTIMETERS INCHES	PERCENTILES CENTIMETERS INCHES
15.72	16.55 1ST 6.52 16.78 2ND 6.61 16.92 3RD 6.66 17.10 5TH 6.73 17.37 10TH 6.84 17.55 15TH 6.91 17.69 20TH 6.96 17.81 25TH 7.01 17.91 30TH 7.05 18.01 35TH 7.09 18.11 40TH 7.13 18.20 45TH 7.16 18.29 50TH 7.20 18.38 55TH 7.24 18.47 60TH 7.27 18.57 65TH 7.31 18.67 70TH 7.35 18.79 75TH 7.40 18.91 80TH 7.45 19.06 85TH 7.51 19.26 90TH 7.58 19.56 95TH 7.70 19.76 97TH 7.78

# (H9) CHETLION-TOP OF HEAD

The vertical distance between the cheilion landmark at the corner of the closed mouth and the horizontal plane targent to the top of the head is measured. The values of the right and left dimensions are averaged.



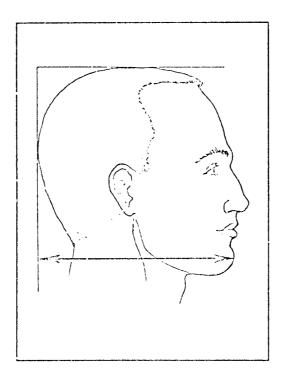
# Variable no. (N9)—Chetlica-TCP of head

# FEALES

THE SUR	MARY STAT	rante		
CEMITMET		INCHES	THE SUMMARY STATE	
		حبتنكاند	CENTIMETERS	INCHES
17.84	MEAN	7.03	10.70	
	SE (MEAN)		18.72 MEAN	7.37
0.04	ST DEV		0.03 SE (MEAN)	
0.03			0.68 ST DEV	0.27
0.03	SE(SD)	0.01	0.02 SE(SD)	0.01
15.66	2) (I'''''''			
	MUMINIM		16.64 MINIMUM	6.55
20.01	MUMIXAM	7.88	20.79 MAXIEUM	8.19
<b>0</b> 017777 077	7 TO VOICE CO			
COEFF. OF	VARIATION		COEFF. OF VARIATION SYMMETRY—VETA I	3.6%
SYMMETRY-	-VETA I	0.13	SYMMETRY—VETA I	0.00
KURICSIS-	VETA II	3.17	KURICSISVETA II	2.89
3 77 77 77 77 77				
numper of	SUBJECTS	334	NUMBER OF SUBJECTS	474
				•
-				······································
PERCENTILES			PERCENTLIFS	
CENTIMETE	RS	INCHES	CENTIMETERS	INCHES
				رهبدسه
16.04	1ST	6.31	17.24 1ST	6.79
16.33	2ND	6.43	17.36 2ND	6.84
16.49	3RD	6.49	17.46 3RD	6.87
16.69	5TH	6.57	17.59 5TH	
16.96	10TH	6.68	17.83 10TH	6.93
17.12	15TH	6.74		7.02
17.25	20TH	6.79		7.09
17.35	25TH	6.83		7.14
17.45	30TH	6.87	18.26 25TH	7.19
17.54	35TH	6.91	18.36 30TH	7.23
17.63	401H	6.94	18.46 35TH	7.27
17.72			18.55 40TH	7.30
17.72	45TH	6.98	18.64 45TH	7.34
	50TH	7.01	18.73 50TH	7.37
17.89	55'TH	7.05	18.82 55TH	7.41
17.99	60TH	7.08	13.90 60TH	7.44
18.09	65TH	7.12	18.99 65TH	7.48
18.19	70TH	7.16	19.08 70IH	7.51
18.31	75TH	7.21	19.18 75TH	7.55
18.44	801H	7.26	19.29 80TH	7.60
18.60	85TH	7.32	19.42 85TH	· · ·
18.81	90TH	7.40	19.58 90TH	7.65
19.11	95TH	7.52		
19.30	97TH	7.60		7.80
19.43	98TH	7.65	19.99 97TH	7.87
	99TH	7.72	20.11 98TH	7.92
	2211	1.14	20.32 99TH	8.00

# (HIC) CHEH-HACK OF HEAD

The horizontal distance between the prementen landwark on the front of the chin and the vertical plane tangent to the back of the head is measured.



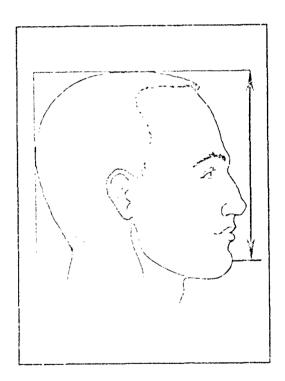
# VARIABLE NO. (H10) —CHIN-BACK OF HEAD

#### FEMALES

			***************************************	~- <del></del>	
THE SUR- CENTIMETE	Mary stat. Ps	ISTICS INCHES		MMARY STAT	
		AL (44 124)	CENTIMET	ELC)	INCHES
18.60		7.32	19.44	MEAN	7.65
	SE (MEAN)		0.04		
0.93	ST DEV	0.37	0.91		
0.04	SE(SD)	0.01	0.03		0.36
			0.03	SE(SD)	0.01
	MINIMIM	5.99	16.35	MINIMUM	6.44
21.17	MAXIMUM	8.33	21.82		
COEFF. OF	VARIATION	5.0%	OFFF OF	VARIATION	4 70.
SYMMETRY—		0.01	SYMMETRY—	VILLATION T	
MUKICSIS—		3.18	SIMPLIKI—	VETA I	
		3.10	MRICS15—	VETA II	3.22
NUMBER OF	SUBJECIS	334	NUMBER OF	SUBJECTS	474
			***************************************		
	ERCENTILES	;	I	FERCENTILES	
CENTIMETE	RS	INCHES	CENTIMETE		INCHES
					تعنديبانيد
16.56	lst	6.52	17.15	1ST	c 25
16.77	2ND	6.60	17.13		6.75
16.90	3RD	6.66			6.89
17,10	5TH	6.73	17.70	3RD	6.97
17.41	10TH	6.86	17.95	5TH	7.07
17.63	15TH		18.32	10TH	7.21
17.81		6.94	18.54	15TH	7.30
	20TH	7.01	18.72	20TH	7.37
17.96	25TH	7.07	18.86	25TH	7.43
18.10	30TH	7.13	18.99	30TH	7.48
18.23	35TH	7.18	19.11	35TH	7.52
18.35	40TH	7.23	19.22	40TH	7.57
18.47	45TH	7.27	19.33	45TH	7.61
18.59	50TH	7.32	19.44	50TH	7.65
18.71	55TH	7.37	19.55	55TH	
18.83	60TH	7.41	19.66		7.70
18.96	65TH	7.46		60TH	7.74
19.09	701H	7.52	19.73	65TH	7.79
19.23	75TH	7.57	19.90	7011i	7.83
19.39			20.03	75TH	7.89
19.57	HT08	7.63	20.19	HT08	7.95
	85TH	7.71	20.37	85TH	8.02
19.81	90TH	7.80	20.60	90TH	8.11
20.16	95TH	7.94	20.95	95TH	8.25
20.40	97TH	8.03	21.19	97TH	8.34
20.57	98TH	8.10	21.36	98TH	8.41
20.85	99TH	8.21	21.63		
			21.63	99TH	8.52

# (HII) GIER-MER OF IEME

The vertical distance between the provinten landark or the front of the chin and the horizontal plane targent to the top of the head is associated.



# VARIABLE NO. (HILL)—CHIN-TOP OF HEAD

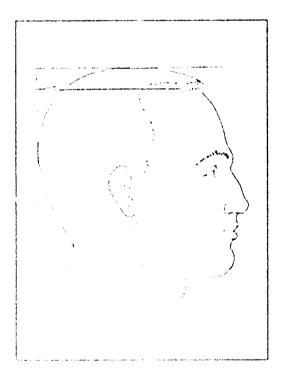
FEMALES

MIES

मधाप ८१७%	MARY STATI	ನ್ನು		वस्तर दाक	Mary Stat	ופחורפ
CENTIMETE		INGLES		THE SUR CENTIMETE	ran sin. Rs	INCHES
20.44	MEAN	8.05		21.65	MEAN	8.52
	SE (MEAN)			0.04	SE (MEAN)	0.02
0.84	ST DEV SE(SD)	0.33		0.82	ST DEV SE(SD)	0.32
0.03	SE (SD)	0.01		0.03	SE(SD)	0.01
	MINIMUM				MINIMIM	
23.03	MAXIMIM	9.06		23.81	MAXIMUM	9.37
COEFF. OF	VARIATION	4.1%		COEFF. OF	VARIATION	3.8%
SYMMETRY-	-VETA I	0.07		SYMETRY-		
KURICSIS	VETA II	3.28		KURTOSIS-	VETA II	2.88
NUMBER OF		224		AND THE PARTY CARD . COURT	ריי דיי איי איי דיי דיי דיי דיי	4*14
NUMBER OF	NUBURUIS	334		NUMBER OF	SUBJECTS	4/4
			<del></del>			
	ERCENTILES				PERCENTILE	
CENTIMETE	RS .	INCHES		CENTIMETE	rs -	INCHES
18.51	1ST	7.29	.*	19.68	1ST	7.75
18.79	2ND	7.40		19.93		
18.95	3RD	7.46		20.09	3RD	7.91
19.15	5TH	7.54		20.30	5TH	7.99
19.43	10IH	7,65		20.60	1011	8.11
19.61	15TH	7.72		20.81	15TH	8.19
19.76	201H	7.78		20.97		
19.88	25TH	7.83		21.11	25TH	8.31
19.99		7.87		21.23	HIOE	8.36
20.10	35TH	7.91		21.34		8.40
20.20	4CTH	7.95		21.45	40TH	8.44
20.30	45TH	7.99		21.55		
20.40	50TH	8.03		21.65	50TH	8.52
20.50		8.07		21.76	55TH	8.57
20.61	60TH	8.11		21.86	60TH	8.61
20.72	65TH	8.16		21.97	65'IH	8.65
20.84	70TH	8.20		22.08	70111	8.69
20.97	751H 80TH	8.26		22.20	75TH	3.74
21.13	80TH	8.32	• .	22.34		
21.30	85TH			22.50		8.85
21.53		8.48		22.70	90TH	8.94
21.87	957H			22.99		9.05
22.09				23.17		
22.24	931H	3.76		23,30		9.17
22.46	971H 981H 991H	8.34		23.50		9.25

# (HL2) CREATON-POST OF FEAD

The horizontal distance between the crimical landwark on the lowest point of the hairline on the forehead and the vertical plane tangent to the Luck of the head is measured.



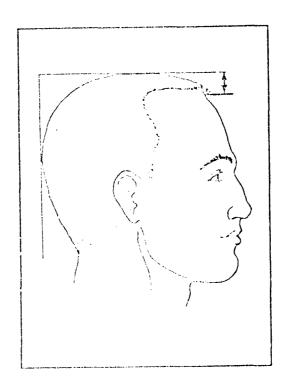
# VARIABLE NO. (H12)—CRINICI-PACK OF HEAD

# FEMILS

THE SU	Mary Stat	TSTICS	THE SIZ	Wary Stat	Teritor
CENTIMETE	rs	INCHES	CENTRET	2000 2000	
				.aCha3	INCHES
18.07	MEAN	7.11	12 43	MEAN	7 76
C.05	SE (MEAN)	0.02	0.04		
0.87	ST DEV SE(SD)	0.34			
0.03	SE(SD)	0.01		ST DEV	
			0.03	SE(SD)	0.01
15.69	MUNUAUM	6.18	15.41	MINIMM	6.07
20.46	MAXIMIM	8.06		MAXIMIM	
				12 0 132 1331	0.10
CORFF. OF	VARIATION	4.83	COEFF. OF	VARIATION	a 92
SYMMETRY—	VETA I		SYMMETRY	VETA T	-0.16
KURICSIS	-VETA II	2.86	KURIOSIS	VETTA TT	7 11
laterane				12211 11	J. 13
MARKER OF S	SUBJECTS	334	NUMBER OF	SUBTECTS	469
the second of the second secon	يبير متودا للموسات مطاورون والماطيب والمشارة وسيدانا				403
ΓΞ	TCENTILE:	•			
CENTIMETE			F	ERCENTILES	5
Artin a K Wa abilit a file	`•>	DIGHT	CENTIMETE	ণ্ডে <u> </u>	INCHES
15 88	4 (544)	C 25			
16.19	1ST 2ND	6.25	16.16	40 May 1 49	6.36
16.37	200	6.37	16.54		6.51
		6.45	16.75	3RD	6.59
16.61	5711	6.54	17.00		6.69
16.95	10111		17.35	1071	6.83
17.17	157H 2071	6.76	17.56	15711	6.91
17.34	2011	6.83	17.72		
17.40	25/111	6.88	17.85		7.03
17.62	30111	6.94	17.98		7.03
17.74	35TH	6.38	18.09		7.03
17.85	40m	7.03	18.20	- A	
17.96	45TH	7.07	18.31	45/IH	7.16
13.07	507H	7.11	18.41	507H	7.21
18.13	557H	7.16	18.52		7.25
18.30	601H	7.20	18.64	551H	, .
18.41	65311	7.25		6014	7.34
18.54	701H		18.76	65711	7.38
18.67	75/1 <b>H</b>	7.35	18.83	70TH	7.43
18.32	801H		19.02	75'11	7.49
13.99	857H	7.47	19.18	SOTH	7.55
19.19	991H	7.56	19.36	85111	7.62
19.48	95171	7.67	19.59	90M	7.71
	971H	7.73	19.90	95TH	7.83
19.75	98711		20.67	97111	7.90
19.89	993H	7.73	20.13	927H 927H	7.95
6 2 4 14 X	93:33	7.83	20.31	997H	8.00

# (HI3) CREHCH-ICP OF HELD

The vertical distance between the crimical landmark on the lowest point of the hairline on the forcheed and the horizontal plane tangent to the top of the head is measured.



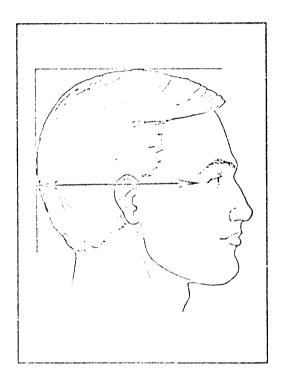
# VARUABLE NO. (HL3)—CRINICH-TOP OF HEAL

**FEMALES** 

THE SUMPARY STATISTICS			THE SUR CENTIMETE	DARY STAT		
CENTIMETE	PS	INCHES		CENTIMETE	rs -	INCHES
4 00	*****			4 20	*****	3 ~~
	MEAN				MEAN	
0.05	SE (MEAN)	0.02		0.05	SE (MEAN)	0.02
0.88	ST DEV SE(SD)	0.35		0.98	ST DEV SE(SD)	0.39
0.03	SE(SD)	0.01		0.03	SE(SD)	0.01
	MUNIMUM		•		MINIMIM	
6.78	MAXIMUM	2.67		8.67	MAXIMM	3.41
COEFF. OF				COEFF. OF		
SYMETRY— KURICSIS—	-VETA I	0.22		SYMMETRY—		0.44
KURICSIS—	VETA II	2.78		KURICSIS—	VETA II	3.75
NUMBER OF	SUBJECTS	334		NUMBER OF	SUBJECTS	469
ī	ZERCEMTILIS	•	<del>-</del>	7	PERCENTILE	
	PS			CENTIMET	Percententalas. Poc	, INCHES
Similar of the death of the death	ಷ್ಟ	Calif DVAL		CEITIUIL	داد	المتناكب المل
2.48	1ST	C.98		2.04	1ST 2ND	0.80
2.58	lst 2ND	1.02		2.30	2ND	0.91
2.67	3PD	1.05		2.46	3RD	0.97
2.81	51H	1.11		2.67	5TH	1.05
3.08	10111	1.21		2.99	101H	1.18
3.28	15TH			3.20		
3.45		1.36		3.37		1.33
3.60	25TH	1.42 1.47		3.52		1.39
3.73	30111	1.47		3.65	301H	1.44
3,86	35TH	1.52		3.77		
3.98	40TH	1.57		3.89		
4.10	45TH	1.61		4.01	45TH	1.58
4.21	50TH	1.66		4.12		1.62
4.32	59TH	1.70		4.24	5514	1.67
4.44	601 <b>H</b>	1.75		4.36		
4.56	601 <b>H</b> 657 <b>H</b>	1.79		4.49	65TH	1.77
4.68		1.84		4.63		1.82
4.32	75TH	1.90		4.78		
4,97	80TH			4.95		1.95
5.15				5.16	85TH	2.03
5.38		2.12		5.44	90TH	2.14
5.73				5.88	9574	2.31
5.93		2.35		6.13		2.43
6.17	38.1H	2.43		6.41	95TH	
6.51	991hi	2.56		6.79		2.67
					2 0 00.0	

#### (HIA) ECICCRBITALE-PACK OF HEAD

The horizontal distance between the ectoerbitale landmark just behind the bony eye socket at the level of the cuter corner of the eye and the vertical plane targent to the back of the head is measured. The values of the right and left dimensions are averaged.



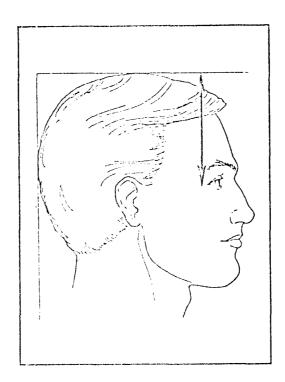
# VARIABLE NO. (H14) — ECICCRETIALE-PACK OF HEAD

# FEMALES

THE SUMMARY STATES CENTIMETERS		INCHES STICS	THE SUMMARY STA CENTIMETERS	TISTICS INCHES
0.03	MEAN SE (MEAN) ST DEV SE (SD)	6.05 0.01 0.23 0.01	16.01 MEAN 0.03 SE(MEAN 0.56 ST DEV C.02 SE(SD)	) 0.01 0.22
	MINIMUM MAXIMUM	5.19 6.67	14.03 MINIMUM 17.51 MAXIMUM	
SYMMETRY— KURTOSIS—		-0.19 3.53	COEFF. OF VARIATION SYMMETRY——VETA KURICSIS——VETA I	I 0.06 I 3.01
PERCENTILES CENTIMETERS INCHES			PERCENTIL CENTIMETERS	ES INCHES
13.78 14.06 14.22 14.40 14.65 14.79 14.90 14.99 15.07 15.14 15.21 15.28 15.35 15.42 15.49 15.57 15.65 15.74 15.84 15.96 16.11 16.32 16.45	2ND 3RD 5TH 10TH 15TH 20TH 25TH 30TH 35TH 40TH 55TH 60TH 65TH 70TH 75TH 70TH 75TH 90TH 95TH	5.43 5.54 5.60 5.67 5.77 5.82 5.90 5.93 5.99 6.02 6.04 6.10 6.13 6.16 6.20 6.24 5.28 6.43 6.43 6.43	15.77 35TH 15.84 40TH 15.91 45TH 15.98 50TH 16.05 55TH 16.13 60TH 16.20 65TH 16.29 70TH 16.38 75TH 16.48 80TH 16.60 85TH 16.76 90TH 16.97 95TH 17.10 97TH	5.86 5.90 5.96 6.03 6.08 6.12 6.15 6.18 6.21 6.24 6.26 6.29 6.32 6.35 6.41 6.45 6.49 6.54 6.60 6.68 6.73
16.54 16.65	HT86 HICE	6.51 6.55	17.19 98TH 17.31 99TH	

#### (H15) ECTCCRETALE-TOP OF HEAD

The vertical distance between the ectcorbitale landmark just behind the bony eye socket at the level of the cuter corner of the eye and the horizontal plane tangent to the top of the head is measured. The values of the right and left dimensions are averaged.



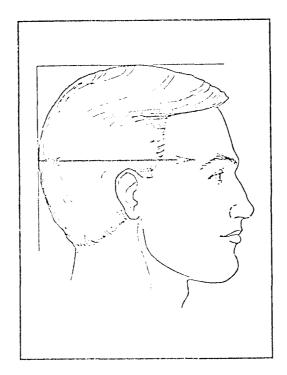
# VARIABLE NO. (HL5) -- ECICCRETIALE-TOP OF HEAD

# FEMALES

			·		
THE SUMMARY STATISTICS		STICS	THE SU	MMARY STAT	ISTICS
CENTIMETERS		INCHES	CENTIMET	ers	INCHES
	MEAN			MEAN	
	SE (MEAN)	0.01	0.03	SE (MEAN)	0.01
0.58	ST DEV SE(SD)	0.23	0.56	ST DEV	0.22
0.02	SE(SD)	0.01	0.02	SE(SD)	0.01
	MUMIMUM			MINIMUM	
13.05	MAXIPUM	5.14	13.64	MAXIMUM	5.37
COEFF. OF	VARIATION	5.1%	OFFE. OF	VARIATION	A 72
SYMETRY-		0.24		VETA I	
	VETA II	3.13		VETA II	
			10.00.10	VLIM II	3.00
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	474
		<del></del>	Constitution of the Consti		·····
PERCENTILES			PERCENTILES	,	
CENTIMET		INCHES	CENTIMET		INCHES .
		311 (A 1130)	الماليان الماليان	:200	THANKS.
9.81	1ST	3.86	10.46	1ST	4.12
10.07	2ND	3.97	10.65		
10.21	3RD	4.02	10.76		
10.37	5TH	4.08	10.90		4.29
10.57		4.16	11.10	1011	4.37
10.69	15114	4.21	11.23	15TH	4.42
10.77	20TH	4.24	11.33		
10.85	25TH	4.27	11.42		4.50
10.92		4.30	11.50		4.53
10.98		4.32	11.57	30211	4.56
11.05		4.35	11.64		4.50
11.11	45TH	4.38			
11.18	50TH	4.40	11.71		
11.25	55TH		11.77	50TH	4.64
11.33			11.84	55TH	4.66
11.41		4.46	11.91	601H	4.69
	65TH		11.99	02171	4.12
11.50	· 701H	4.53	12.07		
11.60	75TH	4.57	12.15	<b>7</b> 51H	4.78
11.71	HIOS	4.61	12.25	BOTH	
11.85	85TH	4.66	12.37	85TH	4.87
12.02	901H		12.52	90TH	4.93
12.27	95TH	4.83	12.74	95TH	
12.41	97TH	4.89	12.89	97TH	5.07
12.50	98TH	4.92	12.99	HT86	5.12
12.60	99IH	4.96	13.16	99TH	5.18

# (HIG) : FROMOIT FORME-FICK OF HEND

The horizontal distance between the frontotamporale landmark on the temporal crest at the side of the forehead and the vertical plane tangent to the back of the head is measured. The values of the right and left dimensions are averaged.

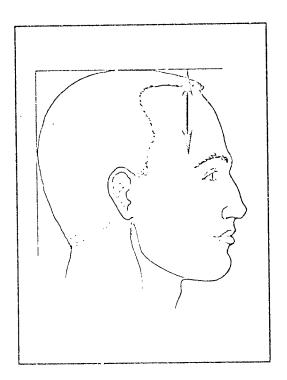


# VARIABLE NO. (H16)—FECNTOFFEFCRALE-BACK OF HEAD FEMALES MALES

THE STIMM	ARY STRATT	लाग्य	figur our	CONTRACTOR CONTRACTOR	TITO
THE SUMMARY STATT CENTIMETERS				MMARY STAT	
CHATTANTER	ည	INCHES	CENTIMET		INCHES
16.66	MEAN		17.45	MEAN	6.87
0.03	SE (MEAN)	0.01	0.03	SE (MEAN)	0.01
0.59	ST DEV	0.23	0.56	ST DEV	
0.02	SE(SD)	0.01			
0.0.5	DII (DD)	0.01	0.02	SE(SD)	0.01
14 27 1	A T T T T T T T T T T T T T T T T T T T	F 60			
	MUNIMUM			MINIMUM	
18.20	MUMIXAM	7.17	19.29	MAXIMUM	7.59
COEFF. OF V	ARIATION	3.5%	COEFF. OF	VARIATION	3.2%
SYMMETRYVETA I		-0.35	SYMMETRY-		
KURICSIS-		3.70		-VETA II	
101000	V.J.111	3.70	MAICOIS-	VEIA II	2.94
NATIVIDADO OU CA	mara				
NUMBER OF ST	UBJECIS	334	NUMBER OF	SUBJECTS	474
	<del></del>				
PE	RCENTILES	;	]	PERCENTILES	3
CENTIMETER	5	INCHES	CENTIMET	TRS	INCHES
15.04	1ST	5.92	16.12	1ST	6.35
15.31	2ND	6.03	16.30		
15.46	3RD	6.09			
15.65	5TH		16.41		
		6.16	16.55		
15.91	10111	6.27	16.75	10IH	
16.07	15TH	6.33	16.88	15TH	6.65
16.19	20TH	6.38	16.98	20TH	6.69
16.29	25TH	6.41	17.07		6.72
16.38	30TH	6.45	17.15	30TH	6.75
16.46	35TH	6.48			
16.54			17.22	35TH	
	40TH	6.51	17.29	40TH	6.81
16.61	45'IH	6.54	17.36	45TH	6.84
16.68	50IH	6.56	17.43	50TH	6.86
16.74	<b>5</b> 5TH	6.59	17.50	55TH	6.89
16.82	60TH	6.62	17.58	60TH	6.92
16.89	65TH	6.65	17.65		
16.96	70TH	6.68		65'IH	6.95
17.05			17.74	701H	6.98
	75TH	6.71	17.83	75TH	7.02
17.14	801H	6.75	17.93	HT08	7.06
17.25	HT23	6.79	18.04	85TH	7.10
17.39	90TH	6.85	13.19	90TH	7.16
17.59	95TH	6.92	18.40	95TH	
17.71	97TH	6.97			7.24
17.71			18.53		7.30
	98TH	7.01	18.62		7.33
17.95	99TH	7.06	18.74	99TH	7.38
				-	

#### (H17) INCVIOLENCEALE-TOP OF HEED

The vertical distance between the frontotomporale landmark on the temporal crest at the side of the frontal, or forehead, bone above the brownidges and the horizontal plane tangent to the top of the head is measured. The values of the right and left dimensions are averaged.



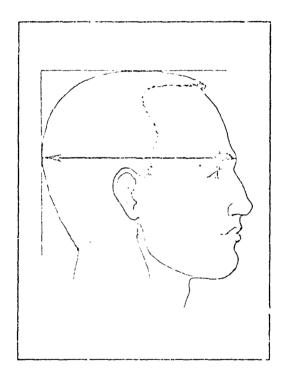
# VARIABLE NO. (H17) -- FPCNIOTEAFCRALE-TOP OF HEAD

#### FEMALES

THE SUMMAR	V STEATT	כוייורכ		वस्तान द्यान	Mary Stati	COUTCO
CENTINETERS						
CENTITUETERS		INCHES		CENTIMETE	£5	INCHES
	MEAN			8.91	MEAN	3.51
0.03 SE	(HEAN)	0.01		0.03	SE (MEAN)	0.01
0.60 S	T DEV	0.24			ST DEV	
0.02 S	E(SD)	0.01		0.02	SE(SD)	
0.02	ולטטן	0.01		0.02	SE (SU)	0.01
C 70 10						
6.79 MI				7.34	MUNIMUM	2.89
10.23 MA	XIMUM	4.03		10.97	MAXIMUM	4.32
COEFF. OF VAR	IATION	7.0%		COEFF. OF	VATTATAKV	6.9%
SYMMETRYV				SYMMETRY—		
KURIOSISV						
MARIOSISV.	CIW II	3.18		KURTOSIS—	-VETA 11	2.98
NUMBER OF SUB	JECIS	334		NUMBER OF	SUBJECTS	474
			_ ,			
•						
	ENTILES			Þ	ERCENTILES	
CENTIMETERS		INCHES		CENTIMETE		INCHES
				~~·*		
7.19	1ST	2.83		7 (0	1ST	
7.37				7.60		
	2ND	2.90		7.72	2ND	3.04
	3RD	2.94		7.81	3RD	3.07
7.62	5TH	3.00		7.93	5TH	3.12
7.82	10TH	3.08		3.13	10TH	3.20
7.95	15TH	3.13		8.28		3.26
8.06	20TH	3.17				
8.15			•	8.40		3.31
		3.21		8.50	25TH	3.35
8.23	301H	3.24		8.59	30TH	3.38
8.31	35TH	3.27		8.67	35TH	3.41
8.38	40TH	3.30		8.75	40TH	3.44
8.45	45TH	3.33		8.83	45TH	3.48
8.52	50TH	3.35				
8.60				8.90	50TH	3.50
	55TH	3.38		ઈ.98	55TH	3.53
8.67		3.41		9.05	60IH	3.56
8 <b>.7</b> 5	65TH	3.44		9.13	65TH	3.60
8.84	70TH	3.48		9.22	70TH	3.63
8.93	75TH	3.52		9.31	75TH	3.66
9.04	80TH	3.56				
				9.41	HTO8	3.71
9.17	85TH	3.61		9.54	85TH	3.76
9.34	90TH	3.68		9.70	90TH	3.82
9.60	95TH	3.78		9.95	95TH	3.92
9.78	97TH	3.85		10.14	97TH	3.99
9.91	98TH	3.90		10.28	98TH	4.05
10.12	99TH	3.98				
A. ○ • A.M.	1111	J.70		10.53	99TH	4.14

# (H13) GIADELIA-DACK OF BUND

The horizontal distance between the glabella landrark on the forchead between the eyebrows and the vertical passe tangent to the back of the head is measured.



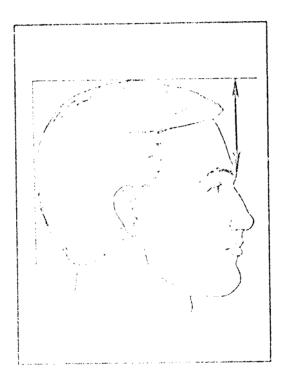
# VARIABLE NO. (HIS) —GLAEBILA-BACK OF HEAD

FETALES MIES

क्यान दान	MARY STATI	्याग् ८५	THE SUMMARY	enamem ce
CENTIMETE		INCHES	CENTIMETERS	INCHES
CENTIMETO	277/2	INCIES	CHAITEMETERS	MCHES
10 15	MEAN	7.54	22.04 15	AN 7.89
	SE (MEAN)			
			0.03 SE(M	
	ST DEV	0.25	0.64 ST	
0.03	SF(SD)	0.01	0.02 SE(	SD) 0.01
16.67	MUNIMUM	6.56	17.91 MINI	MUM 7.05
	MAXIMUM		22.18 MAXI	
COEFF. OF	VARIATION	3.4%	COEFF. OF VARIA	
SYMMETRY—	-VETA I	-0.39	SYMMETRY——VET	A I -0.03
KURICSIS-	VETA II	3.43	KURTOSISVET	A II 3.19
NUMBER OF	SUBLECTS	334	NUMBER OF SUBJE	CTS 474
and the same of the state of th				-
Ţ	PERCEITILES	3	PERCEN	TTIES
CENTIMET		INCHES	CMIMEIES	INCHES
		and the second	The set of the second s	
17.37	1ST	6.84	18.56	1ST 7.31
17.69	2ND			2ND 7.37
17.86		7.03		3ED 7.42
18,57		7.11		5TN 7.48
18.35		7.22		OIH 7.57
18.52	15TH	7.29		5TH 7.63
18.65				
	201H	7.34		OTH 7.68
18.75	25TH	7.38		5TH 7.72
18.35		7.12		OIH 7.76
18.93	35TH	7.45	<b>19.</b> 80 3	5TH 7.80
19.01	401H	7.48	19.83 4	omi 7.83
19.09	45TH	7.52	19.96 4	5TH 7.86
19.17	501H	7.55	20.04 5	ON 7.89
19.25	55TH	7.58	20.13 5	57H 7.92
19.33	601H	7.61	20.21 6	OTH 7.95
19.41	65771	7.64		57H 7.99
19.50	70IH	7.68		VIII 8.02
19.59	75TH	7.71		53H 8.06
19.70		7.76		OTH 8.10
19.82	85TH	7.81	-	5TH 8.15
19.98	90TH	7.86		OTH 8.21
20.19	95TH	7.95	21.07 9	5TH 8.30
20.31	97IH	7.99	21 22 a	न्तरा ० ५६
20.38	98TH	8.02	21.33 9	3TH 8.40
20.47	33H!	8.06	21.49 9	97H 8.46

# (309) GENERALINA CV HEED

The vertical distance between the glabella landmark on the foreless and the horizontal plane tangent to the top of the hood is measured.



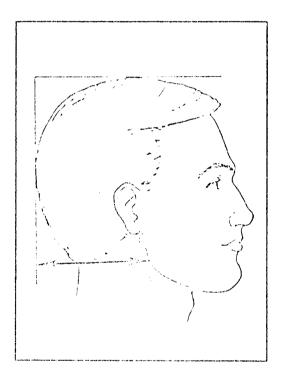
# VARIABLE NO. (1919) -- CLAPPILA-TOP OF HEAD

## FEMILES

THE SUP	eren vale	GILLOG		מנוט פונים	CARATOR CONTROL	F CETTE CHO
CENTIMETER				Ing Sur	MARY STAT	
CEMILIANE LINE	(C)	INCEE		CENTIMETE	RS	INCHES
8.86	MEAN	3.49		9.72	MEAN	3.83
	SE (MEAN)			0.03	SE (MEAN)	0.01
0.67	ST DEV SE(SD)	0.27		0.66	ST DEV	0.26
0.03	CE/CDI	0.01		0.00	CE (CD)	0.20
0.03	55 (55)	0.01		0.02	SE(SD)	0.01
7 25	MINIMIM	2 25				
7.23	MANAGEM	2.85		7.90	MINIMUM	3.11
11.00	MAXIMIM	4.33		12.10	MACHALIA	4.76
AND TO THE R. P. L.	White replacement for the street and the					
CEFF. OF V				COEFF. OF	VARIATION	6.3%
SYMMETRY—	-VETA I	0.33		SYMMETRY-	-VETA I	0.15
KURIXIIS	-AREV II	3.10		KURICGIS—	VETA II	3.11
NUMBER OF S	UBJECTS	334		NUMBER OF	CHETTAIC	171
				a continue of	the divided to	-47-4
			•	***************************************		
PE	RCENTILES			Į.	ERCENTILES	2
CENTIMETER	క	INCHES		CENTIMETE		
				CAMPA AR SUR A.	4.40	CARCINICAL
7.59	lst	2 91		0.20	ıst	2 22
7.56	2ND					
	ZHD	2.98		8.39		3.30
7,67	JRD	3.02		8.50		
7.81	5TH	3.07		8.66	5771	3.41
8.03	10111	3.16	•	8.89	1001	3.50
3.17	15TH	3.22		9.04		3.56
8.29	20TH	3.26				
8.39		3.30		9.16 9.27	201H 251H 301H	3.61
						3.65
8.48	301H	3.34		9.36	HTOE	3.69
8.57		3.37		9.45	35TH	3.72
8.65	40IH	3.41		9.54		
8.73	45TH	3.44		9.62		3.79
8.82	50TH	3.47			50111	
8.90	55/IH	3.50				3.82
				9.78	55 <b>TH</b>	3,85
8.99		3.54		9.87	601H	3.89
9.08	65/TH	3.57		<b>9.</b> 96	65'IH	3.92
9.17	701H	3.61		10.05		3.96
9.28	75TH	3.65		10.15		
9.41	80111	3.70		10.27		4.04
9.55		3.76		10.27		
9.75	30111					4.10
		3.84		10.53	90TH	4.16
		3.95		10.84	95771	4.27
10.25	97111	4.03		11.00	97TH	4.33
	98TH	4.10		11.12	98TH	4.33
		4.19		11 30	997H	A 35
	* - *			44.00	3 4 E	4.40

#### (H2O) CONTOUT ELCK OF HEND

The horizontal distance between the genich landwark on the corner of the jaw and the vertical plane targent to the back of the head is measured. The values of the right and left dimensions are averaged.



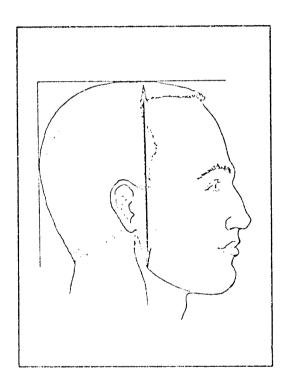
## VARIABLE NO. (H2O) —GCHICN-BACK OF HEAD

#### FEMALES

CENTIMETERS   INCHES   CENTIMETERS   INCHES
0.04 SE (MEAN) 0.02 0.03 SE (MEAN) 0.01 0.73 ST LEV 0.29 0.68 ST DEV 0.27 0.03 SE (SD) 0.01 0.02 SE (SD) 0.01 0.03 SE (MEAN) 0.01 0.02 SE (SD) 0.01 0.02 SE (SD) 0.01 0.03 SE (MEAN) 0.01 0.02 SE (SD) 0.02 SE
0.04 SE (MEAN) 0.02 0.03 SE (MEAN) 0.01 0.73 ST LEV 0.29 0.68 ST DEV 0.27 0.03 SE (SD) 0.01 0.02 SE (SD) 0.01 0.03 SE (MEAN) 0.01 0.02 SE (SD) 0.01 0.02 SE (SD) 0.01 0.03 SE (MEAN) 0.01 0.02 SE (SD) 0.02 SE
0.73 ST LEV 0.29 0.68 ST DEV 0.27 0.03 SE(SD) 0.01 0.02 SE(SD) 0.01 0.02 SE(SD) 0.01 8.35 MINIMUM 3.29 9.75 MINIMUM 3.84 13.14 MAXIMUM 5.17 14.03 MAXIMUM 5.52 COEFF. OF VARIATION 6.9% COEFF. OF VARIATION 5.9% SYMMETRY—VETA I 0.35 KURTOSIS—VETA II 3.33 KURTOSIS—VETA II 3.34 NUMBER OF SUBJECTS 334 NUMBER OF SUBJECTS 474 PERCENTILES CENTIMETERS INCHES CENTIMETERS INCHES CENTIMETERS INCHES 10.19 2.10 4.01 9.24 3RD 3.64 10.28 3RD 4.05 9.42 5TH 3.71 10.41 5TH 4.10 9.69 10TH 3.82 10.64 10TH 4.19 9.88 1.5TH 3.89 10.80 1.5TH 4.25
0.03       SE(SD)       0.01       0.02       SE(SD)       0.01         8.35       MINIMUM       3.29       9.75       MINIMUM       3.84         13.14       MAXIMUM       5.17       14.03       MAXIMUM       5.52         COEFF. OF VARIATION       6.9%       COEFF. OF VARIATION       5.9%         SYMMETRY—VETA I       0.35       KURICSIS—VETA II       3.34         NUMBER OF SUBJECTS       334       NUMBER OF SUBJECTS       474         FERCENTILES       PERCENTILES       CENTIMETERS       TINCHES         CENTIMETERS       INCHES         SUBJECTS       3.34       NUMBER OF SUBJECTS       474         PERCENTILES       CENTIMETERS       TINCHES         CENTIMETERS       INCHES         BARCHARD       ACM         9.12       2ND       3.59       10.19       2ND       4.01         9.24       3RD       3.64       10.28       3RD       4.05         9.42       5TH       3.71       10.41       5TH       4.10         9.69       10TH       3.89       10.64
8.35       MINIMUM       3.29       9.75       MINIMUM       3.84         13.14       MAXIMUM       5.17       14.03       MAXIMUM       5.52         COEFF. OF VARIATION       6.9%       COEFF. OF VARIATION       5.9%         SYMMETRY—VETA I       0.35       KURIOSIS—VETA II       3.34         NUMBER OF SUBJECTS       334       NUMBER OF SUBJECTS       474         PERCENTILES         CENTIMETERS       INCHES         8.93       15T       3.52       10.06       1ST       3.96         9.12       2ND       3.59       10.19       2ND       4.01         9.24       3RD       3.64       10.28       3RD       4.05         9.42       5TH       3.71       10.41       5TH       4.10         9.69       10TH       3.82       10.64       10TH       4.19         9.88       1.5TH       3.89       10.80       15TH       4.25
13.14 MAXIMUM 5.17  14.03 MAXIMUM 5.52  COEFF. OF VARIATION 6.9% SYMMETRY—VETA I -0.01 SYMMETRY—VETA I 0.35 KURTOSIS—VETA II 3.33  NUMBER OF SUBJECTS 334  NUMBER OF SUBJECTS 334  NUMBER OF SUBJECTS 474  FERCENITIES CENTIMETERS INCHES  8.93 1ST 3.52 CENTIMETERS INCHES  8.93 1ST 3.52 10.06 1ST 3.96 9.12 2ND 3.59 10.19 2ND 4.01 9.24 3RD 3.64 10.28 3RD 4.05 9.42 5TH 3.71 10.41 5TH 4.10 9.69 10TH 3.82 10.64 10TH 4.19 9.88 15TH 3.89 10.80 15TH 4.25
13.14 MAXIMUM 5.17  14.03 MAXIMUM 5.52  COEFF. OF VARIATION 6.9% SYMMETRY—VETA I -0.01 SYMMETRY—VETA I 0.35 KURTOSIS—VETA II 3.33  NUMBER OF SUBJECTS 334  NUMBER OF SUBJECTS 334  NUMBER OF SUBJECTS 474  FERCENITIES CENTIMETERS INCHES  8.93 1ST 3.52 CENTIMETERS INCHES  8.93 1ST 3.52 10.06 1ST 3.96 9.12 2ND 3.59 10.19 2ND 4.01 9.24 3RD 3.64 10.28 3RD 4.05 9.42 5TH 3.71 10.41 5TH 4.10 9.69 10TH 3.82 10.64 10TH 4.19 9.88 15TH 3.89 10.80 15TH 4.25
COEFF. OF VARIATION 6.9% COEFF. OF VARIATION 5.9% SYMMETRY—VETA I -0.01 SYMMETRY—VETA I 0.35 KURTOSIS—VETA II 3.33 KURTOSIS—VETA II 3.34 NUMBER OF SUBJECTS 334 NUMBER OF SUBJECTS 474  PERCENTILES CENTIMETERS INCHES  8.93 1ST 3.52 PERCENTILES CENTIMETERS INCHES  8.93 1ST 3.52 10.06 1ST 3.96 9.12 2ND 3.59 10.19 2ND 4.01 9.24 3RD 3.64 10.28 3RD 4.05 9.42 5TH 3.71 10.41 5TH 4.10 9.69 10TH 3.82 10.64 10TH 4.19 9.88 15TH 3.89 10.80 15TH 4.25
SYMMETRY——VETA I -0.01         SYMMETRY—VETA I 0.35           KURTOSIS—VETA II 3.33         KURTOSIS—VETA II 3.34           NUMBER OF SUBJECTS         334         NUMBER OF SUBJECTS         474           PERCENTILES         PERCENTILES           CENTIMETERS         INCHES         CENTIMETERS         INCHES           8.93         1ST 3.52         10.06 1ST 3.96         9.12 2ND 3.59         10.19 2ND 4.01           9.24         3RD 3.64         10.28 3RD 4.05         9.42 5TH 3.71         10.41 5TH 4.10           9.69         101H 3.82         10.64 101H 4.19         9.88 15TH 3.89         10.80 15TH 4.25
SYMMETRY——VETA I -0.01         SYMMETRY—VETA I 0.35           KURTOSIS—VETA II 3.33         KURTOSIS—VETA II 3.34           NUMBER OF SUBJECTS         334         NUMBER OF SUBJECTS         474           PERCENTILES         PERCENTILES           CENTIMETERS         INCHES         CENTIMETERS         INCHES           8.93         1ST 3.52         10.06 1ST 3.96         9.12 2ND 3.59         10.19 2ND 4.01           9.24         3RD 3.64         10.28 3RD 4.05         9.42 5TH 3.71         10.41 5TH 4.10           9.69         101H 3.82         10.64 101H 4.19         9.88 15TH 3.89         10.80 15TH 4.25
NUMBER OF SUBJECTS   334   NUMBER OF SUBJECTS   474
NUMBER OF SUBJECTS   334   NUMBER OF SUBJECTS   474
PERCENTILES           CENTIMETERS         INCHES         CENTIMETERS         INCHES           8.93         1ST         3.52         10.06         1ST         3.96           9.12         2ND         3.59         10.19         2ND         4.01           9.24         3RD         3.64         10.28         3RD         4.05           9.42         5TH         3.71         10.41         5TH         4.10           9.69         10TH         3.82         10.64         10TH         4.19           9.88         15TH         3.89         10.80         15TH         4.25
CENTIMETERS         INCHES         CENTIMETERS         INCHES           8.93         1ST         3.52         10.06         1ST         3.96           9.12         2ND         3.59         10.19         2ND         4.01           9.24         3RD         3.64         10.28         3RD         4.05           9.42         5TH         3.71         10.41         5TH         4.10           9.69         10TH         3.82         10.64         10TH         4.19           9.88         15TH         3.89         10.80         15TH         4.25
CENTIMETERS         INCHES         CENTIMETERS         INCHES           8.93         1ST         3.52         10.06         1ST         3.96           9.12         2ND         3.59         10.19         2ND         4.01           9.24         3RD         3.64         10.28         3RD         4.05           9.42         5TH         3.71         10.41         5TH         4.10           9.69         10TH         3.82         10.64         10TH         4.19           9.88         15TH         3.89         10.80         15TH         4.25
CENTIMETERS         INCHES         CENTIMETERS         INCHES           8.93         1ST         3.52         10.06         1ST         3.96           9.12         2ND         3.59         10.19         2ND         4.01           9.24         3RD         3.64         10.28         3RD         4.05           9.42         5TH         3.71         10.41         5TH         4.10           9.69         10TH         3.82         10.64         10TH         4.19           9.88         15TH         3.89         10.80         15TH         4.25
8.93 1ST 3.52 10.06 1ST 3.96 9.12 2ND 3.59 10.19 2ND 4.01 9.24 3RD 3.64 10.28 3RD 4.05 9.42 5TH 3.71 10.41 5TH 4.10 9.69 10TH 3.82 10.64 10TH 4.19 9.88 15TH 3.89 10.80 15TH 4.25
9.12     2ND     3.59     10.19     2ND     4.01       9.24     3RD     3.64     10.28     3RD     4.05       9.42     5TH     3.71     10.41     5TH     4.10       9.69     10TH     3.82     10.64     10TH     4.19       9.88     15TH     3.89     10.80     15TH     4.25
9.24       3RD       3.64       10.28       3RD       4.05         9.42       5TH       3.71       10.41       5TH       4.10         9.69       10TH       3.82       10.64       10TH       4.19         9.88       15TH       3.89       10.80       15TH       4.25
9.24       3RD       3.64       10.28       3RD       4.05         9.42       5TH       3.71       10.41       5TH       4.10         9.69       10TH       3.82       10.64       10TH       4.19         9.88       15TH       3.89       10.80       15TH       4.25
9.42 5th 3.71 10.41 5th 4.10 9.69 10IH 3.82 10.64 10IH 4.19 9.88 15TH 3.89 10.80 15TH 4.25
9.69     10IH     3.82     10.64     10IH     4.19       9.88     15TH     3.89     10.80     15TH     4.25
20133 2021 1130
10.15 25TH 4.00 11.04 25TH 4.35
10.27 30TH 4.04 11.14 30TH 4.39
10.37     35TH     4.08     11.23     35TH     4.42       10.46     40TH     4.12     11.32     40TH     4.46
10.46 NOTE 4.12 11.32 4011 4.48 10.56 45TH 4.49
10.64 50TH 4.19 11.48 50TH 4.52
10.73 55TH 4.23 11.57 55TH 4.55
10.82 60TH 4.26 11.65 60TH 4.59
10.91 65TH 4.30 11.74 65TH 4.62
11.01 /01H 4.34 11.83 701H 4.65
11.11 75TH 4.38 11.93 75TH 4.70
11.23 8UTH 4.42 12.04 80TH 4.74
11.36     85TH     4.47     12.18     85TH     4.80       11.54     90TH     4.54     12.36     90TH     4.87
11.81 95TH 4.65 12.66 95TH 4.98
11.99 97TH 4.72 12.88 97TH 5.07
12.14 98TH 4.78 13.06 98TH 5.14
12.38 59TH 4.87 13.38 99TH 5.27

#### (H21) GCHECH-MCP OF HEAD

The vertical distance between the genion landmark on the corner of the jaw and the horizontal plane targent to the top of the head is measured. The values of the right and left dimensions are averaged.



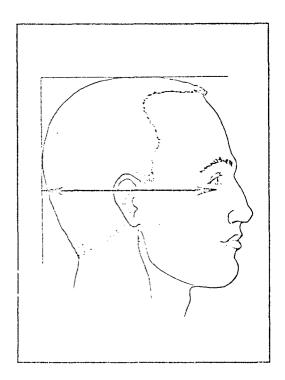
# VARIABLE NO. (H21) -- CONICN-TOP OF HEAD

#### FEMLES

			•	·
	MARY STATI		THE SUMMARY STA	
CENTIMETER	<b>1</b> 5	INCHES	CENTIMETERS	INCHES
18.29	MEAN	7.20	19.73 MEAN	7.77
0.04	SE (MEAN)	0.02	0.03 SE (MEAN	0.01
	ST DEV	0.27	0.70 SÎ DEV	•
0.03	SE(SD)	0.01	0.02 SE(SD)	
	(/		· · · · · · · · · · · · · · · · · · ·	
16.61	MUNIMUM	6.54	17.78 MINIMUM	7.00
20.78	MAXIMUM	8.18	22.72 MAXIMUM	8.94
COEFF. OF V	VARIATION	3.7%	COEFF. OF VARIATIO	N 3.5%
SYMMETRY		0.37		I 0.22
KURICSIS-		3.28	KURICSISVETA I	
NUMBER OF S	בארואמדיםונו	334	NUMBER OF SUBJECTS	474
MONIDUM OF L		224	Nondex of Boddielo	-2 / -2
		**************************************		
PI	ERCENTILES		PERCENTII	ES
CENTIMETLE	33	INCHES	CENTIMETERS	INCHES
16.77	1ST	6.60	18.22 1SI	7.17
16.99	2ND	6.69	18.36 2NE	
17,12	3RD	6.74	18.46 3RD	
17.27	5TH	6.80	18.61 57H	
17.49	10TH	6.89	18.84 10TH	
17.63	1.5TH	6.94	19.01 1577	
17.74	20TH	6.98	19.14 20TH	
17.83	25TH	7.02	19.26 25TH	
17.92	30TH	7.06	19.36 30TH	
18.00	35TH	7.09	19.46 35TH	
18.03	40TH	7.12	19.55 40TH	
18.16	451H	7.15	19.64 45TM	
18.24	50TH	7.18	19.73 50TH	
18.33	55TH			
	*	7.22	19.82 551%	
18.41	60TH	7.25	19.91 60TH	
18.51	65TH	7.29	20.00 65TH	
18.61	70IH	7.32	20.10 7013	
18.72	75TH	7.37	20.20 75TH	
18.85	HIOS	7.42	20.32 8013	
19.00	85TH	7.48	20.45 85TH	
19.20	901H	7.56	<b>20.62</b> 90TH	
19.50	95TH	7.68	<b>20.</b> 86 95TH	8.21
19.69	97TH	7.75	<b>21.</b> 02 97TH	8.28
19.83	98TH	7.81	21.14 98TH	8.32
20.04	99TH	7.89	<b>21.</b> 32 99TH	8.39

#### (HZZ) INTERCORPTIFICA OF HEAD

The horizontal distance between the infraorbitale landmark on the bony eye socket under the eye and the vertical plane targent to the back of the head is measured. The values of the right and left dimensions are averaged.



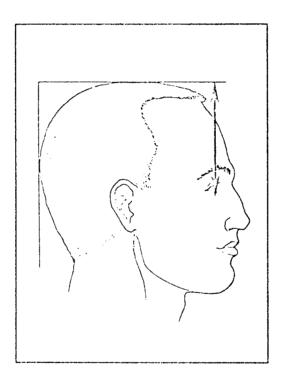
# VARIABLE NO. (H22) —INTRACRBITALE-BACK OF HEAD

#### FEMALES

THE SUM	MARY STATI	STICS	THE SUMMAR	Y STATISTICS
CENTIMETE	יספי	INCHES	CENTIMETERS	INCHES
C421112122	<b>1</b>	11(411)	CLEVIII	
17.56	MEAN	6.91	18.08	MEAN 7.12
	SE (MEAN)		0.03 SE	
	ST DEV			
		0.25	0.59 S	
0.03	SE(SD)	0.01	0.02 S	E(SD) 0.01
15.25	MINIMUM	6.00	16.44 MI	NIMUM 6.47
	MAXIMUM		19.54 MA	
19.00	TANKET TOTA	7.20	19.54 PM	7.09
COEFF. OF	VARIATION	3.6%	COEFF. OF VAR	LATION 3.3%
SYMMETRY-	VETA I	-0.26	SYMMETRY——V	ETA I 0.01
KURIOSIS-		3.45	KURIOSISV	
			•	
NUMBER OF	SUBJECTS	334	NUMBER OF SUE	UECIS 474
		<del></del>		
_	~~~		-	was distance and we
	PERCENTILES			ENTILES
CENTIMETE	IRS	INCHES	CENTIMETERS	INCHES
15.76	1ST	6.20	16.63	1ST 6.55
16.13	2ND	6.35	16.85	2ND 6.63
16.33	3RD	6.43	16.97	3RD 6.58
16.55	5TH	6.52	17.12	5MH 6.74
16.82	10TH	6.62	17.34	10TH 6.83
16.97	15TH	6.68	17.48	15TH 6.88
17.08	20TH	6.72	17.58	20TH 6.92
17.17	25'IH	6.76	17.68	25TH 6.96
	30111			2077 6.90
17.25			17.76	30TH 6.99
17.32	35TH	6.82	17.84	351H 7.02
17.40	40TH	6.85	17.91	40TH 7.05
17.47	45TH	6.88	17.99	45TH 7.08
17.54	50TH	6.91	18.06	50TH 7.J1
				- · · · ·
17.62	55TH	6.94	18.14	55TH 7.14
17.70	60TH	6.97	18.21	60TH 7.17
17.79	65TH	7.00	18.30	65TH 7.20
17.88	70TH	7.04	18.38	70TH 7.24
17.98	751H	7.08		
			18.48	75TH 7.27
18.10	HIOS	7.13	18.58	80TH 7.32
18.23	85TH	7.18	18.71	85TH 7.36
18.40	90TH	7.24	18.87	90TH 7.43
18.63	95TH	7.34	19.09	95TH 7.52
18.75	97TH	7.38	19.22	97TH 7.57
18.82	98TH	7.41	19.32	98TH 7.60
18.87	99TH	7.43	19.44	99TH 7.65
				· · · · ·

#### (H23) INTERACRETALE-TOP OF HEND

The vertical distance between the infraorbitale landmark on the bony eye socket under the eye and the horizontal plane tangent to the top of the head is measured. The values of the right and left dimensions are averaged.

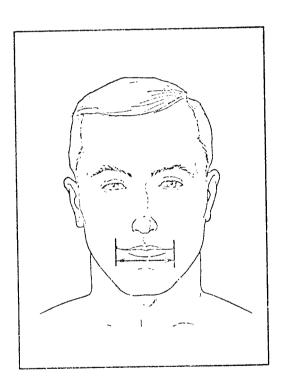


# VARIABLE NO. (H23)—INFRACRETTALE-TOP OF HEAD FEMALES MALES

THE SUM CENTIMETE	Mary Stati Ps	STICS INCHES	THE SUMMARY STAT CENTIMETERS	TSTICS INCHES
12.49	MEAN	4.92	13.06 MEAN	5.14
	SE (MEAN)		0.03 SE (MEAN)	
	ST DEV	0.22	0.55 ST DEV	
0.02	SE(SD)	0.01	0.02 SE(SD)	
0.02	DE (DD)	0.01	0.02 SE(SD)	0.01
	MINIMUM		11.51 MINIMUM	4.53
14.17	MAXIMUM	5.58	14.82 MAXIMUM	5.83
∞eff. of	VARIATION	4.6%	COEFF. OF VARIATION	4.2%
SYMMETRY-	VETA I	0.10	SYMMETRY——VETA I	
KURIOSIS-	VETA II	3.18	KURTOSIS—VETA II	
		*		2.73
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS	474
I-	ERCENTILES	·	PERCENITIE	·
CENTIMETE		INCHES	CENTIMETERS	INCHES
11.06		4.35	11.82 1ST	4.65
11.30	SMD	4.45	11.96 2ND	
11.43	3RD	4.50	12.05 3RD	4.74
11.59	5TH	4.56	12.17 5TH	
11.80	10TH	4.65	12.35 1CTH	
11.93	15TH	4.70	12.48 15TH	
12.02	20TH	4.73	12.59 20HI	
12.11	25TH	4.77	12.68 25TH	
12.18	301H	4.80	12.76 30TH	
12.25		4.82	12.84 35TH	
12.32		4.85	12.91 40114	
12.39	45TH	4.88	12.98 45TH	
12.46	50TH	4.90	13.05 50TH	5.14
12.53	55TH	4.93	13.12 55TH	
12.60		4.96	13.12 SSIN	5.19
12.68		4.99	13.17 65TH	
12.76		5.02	13.27 651H 13.34 70TH	5.25
12.85	75TH	5.06		
12.96	80TH	5.10		5.29
13.08	85TH	5.15		5.32
13.24	90TH	5.21		5.37
13.47	95TH	5.31	13.78 90ïH	5.42
13.61	97TH	5.36	13.98 95TH	5.51
13.71	971H 98TH		14.11 9771	5.56
13.84	99TH	5.40	14.21 98TH	5.59
77.04	מומפ	5.45	14.36 99TH	5.65

#### (H24) LEP LENGTH

The straight-line distance between the right and left cheilion landmarks at the corners of the closed mouth is measured.



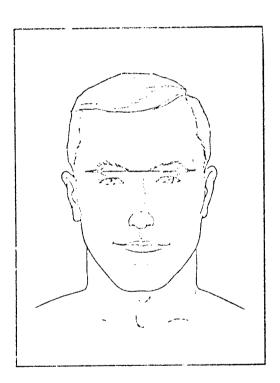
# VARIABLE NO. (H24)—LIP LENGIH

#### FEMALES

				······································
THE SUMMARY STA	TISTICS	क्सार आप	MARY STATE	remres
CENTIMETERS	INCHES	CENTIME		INCHES
	2.0.22	بالمرابية بدوالم المناب	بيد	1114111
5.38 MEAN	2.12	5.64	MEAN	2 22
0.02 SE (MEAN)	0.01			
O OE OF DEV	, 0.01	0.02	SE (MEAN)	0.01
0.35 ST DEV		0.36	ST DEV	
0.01 SE(SD)	0.01	0.01	SE(SD)	0.01
4.24 MINIMUM	1.67	4.61	MINIMIM	1.81
6.69 MAXIMUM			MAXIMUM	
		01.5		2.00
COEFF. OF VARIATION	v 6.6%	COEFF. OF	VARIATION	6.5%
SYMMETRY ——VETA	0.00	SYMETRY—	VETA I	0.15
KURICGIS—VETA I	I 3.42	KURTOSIS-	VETA II	2.90
NUMBER OF SUBJECTS	224	ATT CETTER ATT	Of the transport	
NOTHER OF BUBINCIS	334	number of	SUBJECTS	474
		***************************************		
PERCENTIL:		F	ERCENITLES	5
CENTIMETERS	INCHES	CENTIMETE	RS	INCHES
4.52 1ST			lst	
4.63 2ND		4.93		1.94
4.69 3RD		4.99		1.97
4.78 5TH	1.88	5.07	5TH	2.00
4.93 10TH	1.94	5.19	10TH	
5.02 ° 15TH	1.98	5.27	15TH	
5.09 20TH		5.33	2011	2.10
5.15 25TH	2.03	5.38		2.12
5.21 300H		5.44	30TH	2.14
5.26 35TH		5.48		
5.30 40TH	2.07			2.16
<del></del>		5.53		
		5.57	45TH	2.19
5.39 50TH		5.62	50TH	
5.43 55TH		5.67	55TH	2.23
5.47 60TH	2.15	5.71	601.H	2.25
5.51 65TH	2.17	5,77	65TH	2.27
5.56 70TH	2.19	5.82	70TH	2.29
5.61 75TH	2.21	5.88	75TH	2.31
5.66 8CM	2.23	5.94		2.34
5.73 85114	2.25	6.02	85TH	
5.81 90TH	2.29	6.12		2.41
5.95 95TH	2.34	6.26		
6.04 97TH	2.38			
		6.34	97TH	2.50
6.12 98TH	2,41	6.40		2.52
6.26 99TH	2.46	6.48	99TH	2.55

#### (H25) INKERN FIGURE EGENNE

The straight-line distance between the right and left zygofrontale landmarks at the upper margin of each bony eye socket is measured.



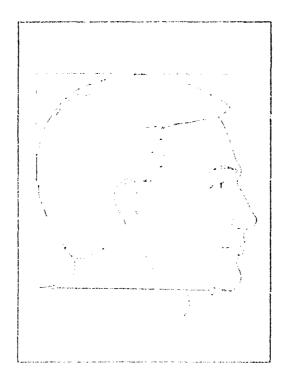
# VARIABLE NO. (H25) — MAXIMUM FRONTAL ERBADUM

#### FEMALES

THE SUMMARY STAT	ISTICS INCHES	THE SUMARY STATISTIC	CS HES
11.04 MEAN 0.03 SE(MEAN) 0.49 ST DEV 0.02 SE(SD)	0.19	0.02 SE(MEAN) 0 0.47 ST DEV 0	.39 .01 .19
9.53 MINIMUM 12.54 MAXIMUM	3.75 4.94		.87
COEFF. OF VARIATION SYMMETRY—VETA I KURTOSIS—VETA II NUMBER OF SUBJECTS	-0.09 3.11	SYMMETRY—VETA I 0 MURIOSIS—VETA II 3	.47
PERCENTLE CENTIMETERS		PERCENTILES CENTRETERS INC	IES
9.74 1ST 9.96 2ND 10.09 3ED 10.24 5TH 10.44 10TH 10.56 15TH 10.65 20TH 10.72 25TH 10.79 30TH 10.85 35TH 10.91 40TH 10.97 45TH 11.03 50TH 11.09 55TH 11.15 60TH 11.22 65TH 11.28 70TH 11.36 75TH 11.45 80TH	3.84 3.92 3.97 4.03 4.11 4.16 4.19 4.22 4.25 4.27 4.30 4.32 4.34 4.37 4.39 4.42 4.44 4.47 4.51	10.15 1ST 4 10.27 2ND 4 10.35 3RD 4 10.44 5TH 4 10.59 10TH 4 10.69 15TM 4 10.77 20TM 4 10.83 25TH 4 10.89 30TM 4 10.95 35TH 4 11.01 40TH 4 11.06 45TM 4 11.12 50TH 4 11.12 50TH 4 11.17 55TM 4 11.23 60TM 4 11.29 65TM 4 11.29 65TM 4 11.29 65TM 4 11.36 70TM 4 11.43 75TM 4	.00 .04 .07 .11 .17 .21 .24 .27 .29 .31 .33 .35 .36 .40 .42 .45 .47 .50
11.68 90TH 11.86 95TH 11.97 97TH 12.05 98TH		11.76 9034 4 11.98 9534 4 12.13 9734 4 12.25 9834 4	

#### (H26) HIMMON-HACK OF HIMD

The horizontal distance between the mention landmark at the bottom of the chin and the vertical plane tangent to the back of the head is measured.



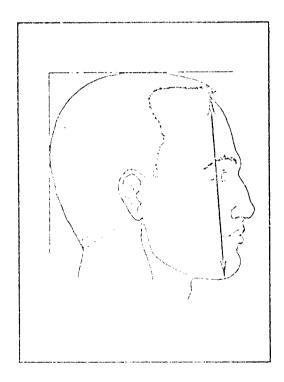
# VARIABLE NO. (H26) - MENTCH-BACK OF HEAD

#### FEMALES

			<del>-</del>		<del></del>
THE SU	MARY STATI	SIICS	THE SU	MMARY STAT	TSTTCS
CENTIMETA	FRS	INCHES	CENTIMET		INCHES
		241041820	ر الربيان المال ۱۲ المبيان		THE STATE OF
17.27			18.40	MEAN	7.24
0.05	SE (MEAN)	0.02	0.04	SE (MEAN)	0.02
0.99	ST DEV	0.39	0.95		0.37
0.04	SE(SD)	0.02	0.03		0.01
			0.03	מטונט	0.01
	MINIMUM		15.38	MINIMIM	6.06
19.94	MAXIMUM	7.85	21.03	MAXIMUM	8.28
COEFF. OF	VARIATION	5.7%	OFFF. OF	VARIATION	5.1%
SYMMETRY-			SYM'EIRY-		
	VETA II			VETA II	
	*****	3.04	VOLUME	ACTW TT	3.24
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	474
***************************************			AND ADVISOR AND ADDRESS OF THE PARTY OF THE		
	TRCENTILES		I	PERCENTILE	3
CEMPIMETE	rs	INCHES	CEATMENT		INCHES
					231021227
14.91	1ST	5.87	16.01	1ST	6.31
15.21	2ND	5.99	16.39	2ND	6.45
15.40	3RD	6.06	16.61	3RD	6.54
15.64	57H	6.16	16.87	517H	
16,01	10111	6.31	17.24		
16.26	159H	6.40		1071	
16.45	SOLH	6.43	17.47	157H	
16.61			17.64	20TH	
		6.54	17.79	25TH	7.01
16.76	30111	6.60	17.92	30TH	7.06
16.89	35'IH	6.65	13.04	35TH	7.10
17.02	40TH	6.70	18.16	401H	7.15
17.14	457H	6.75	19.27	45TH	7.19
17.26	501H	6.80	18.39	50114	7.24
17.38	55TH	6.84	18.50	55TH	7.28
17.51	60M	6.89	18,62	60IH	7.23
17.63	651H	6.94			
17.76	70111	6.99	13.74	65TH	7.38
17.91	75TH		18.88	701H	7.43
		7.05	19.02	<b>75111</b>	7.49
18.07	EOIH	7.12	19.18	SOIH	7.55
18.26	851H	7.33	19.38	HTC8	7.63
13.51	901H	7.29	19.63	901H	7.73
18.89	957H	7.44	19.99	95TH	7.87
19.14	97TH	7.54	20.22	97TH	7,96
19.33	98TH	7.61	20.38		8.02
19.65	9971	7.73	20.52	997H	8.12
			No St R 10 Eq.		متعاشده فالد

#### (H27) RELUCK-CRIPTION LENGTH

The straight-line distance between the menton landmark at the bottom of the chin and the crinical landmark on the lowest point of the hairline on the forehead is measured.



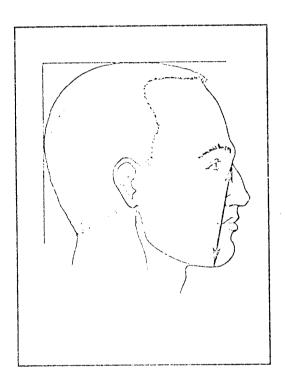
# VARIABLE NO. (H27) - MENICH-CRIMICN LENGTH

#### FEMALES

***************************************			The state of the s	
THE SU	MMARY STAT	ISTICS	THE SUMMARY STAT	TOTAL
CENTIMET		INCHES		
		III(IIII)	CENTIMETERS	INCHES
17.69			18.94 MEAN	7.46
0.05	SE (MEAN)	0.02	0.05 SE(MEAN)	
0.89		0.35	0.98 ST DEV	
0.03				
2122	00(00)	0.01	0.03 SE(SD)	0.01
	MINIMIM		15.53 MINIMUM	6.11
19.97	MUMIKAM	7.86	21.89 MAXIMUM	
COEFF. OF	VARIATION	5.03	COLUMN AND LONG TO THE COLUMN AND TH	
SYMMETRY-		-0.01	COEFF. OF VARIATION	
				0.05
101/10313	VEIA II	2.84	KURTOSIS——VETA II	3.20
NUMBER OF	SUBTECTS	334	NUMBER OF SUBJECTS	469
Į	PERCENTILES		PERCEMILLE	
CENTIMETE	TS	INCHES	CENTIMETERS	<del>-</del> -
	<del>-</del>		CENAL LIVELY ENG	INCHES
15.56	lst	6.13	16.74 1ST	6.59
15.83	2M)	6.23	16.95 2ND	
16.00	3RD	6.30	17.11 3RD	6.73
16.22	57 <b>H</b>	6.39	17.33 5TM	6.82
16.55	10111	6.52		
16.78	15771	6.60		
16.95	20TH	6.67	17.93 15TH	7.06
17.10	25TH		18.13 201H	7.14
17.23		.,	18.30 25TH	7.20
17.25	30171	6.73	18.45 30TH	7.26
	35771	6.33	18.58 35TH	7.31
17.47	401H	6.83	18.71 40fH	7.37
17.59	45'TH	6.92	13.83 45TH	7.41
17.70	SOIH	6.97	18.95 50TH	7.46
17.81	55'1H	7.01	19.07 55TH	7.51
17.92	60TH	7.06	19.18 60TH	7.55
18.04	657H	7.10	19.31 65114	7.60
13.17	701H	7.15	19.43 70TH	
18,30	75TH	7.21		7.65
18.46	SCIII	7.27		7.71
18.63	85TH	7.34	19.73 80111	7.77
13.85	90TH		19.91 85TH	7.84
19.20		7.43	20.15 90TH	7.94
	95/IH	7.56	<b>20.5</b> 5 95TH	8.09
19.41	97111	7.64	20.83 97TH	8.20
19.57	987H	7.71	21.03 93'H	8.29
19.32	99774	7.80	21.46 99TH	

#### (1128) KENTCH-SELLICH LEIGH

The straight-line distance between the menton landmark at the bottom of the chin and the sellion landmark on the deepest point of the root of the nose is measured.



# VARIABLE NO. (H28) - MENICH-SELLICN LENGTH

#### FEMALES

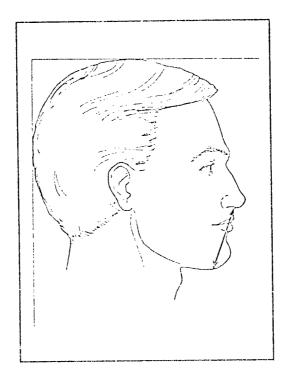
#### MALES

.1.

מנות כדו	0 E3 E3 E1 CONTRACTOR	T		
THE SOF	MARY STAT	ISTICS	THE SUMMARY STA	TISTICS
CENTIMETE	285	INCHES	THE SUMMARY STA	INCHES
11.50	MEAN	4.53	12.21 MEAN	4 02
0.03				
0.61	ST DEV	0.24	0.03 SE(MEAN	0.01
0.02	SE(SD)	0.23	0.60 ST DEV	0.24
0,013	02 (00)	0.01	0.02 SE(SD)	0.01
9.42	MINIMIM	3.71	10.48 MINIMUM	4.13
13.42	MUMIXAM	5.28	14.20 MAXIMUM	
COEFF. OF	VARIATION	5.3%	COEFF. OF VARIATIC	N 4.9%
SYMMETRY-	VETA I	0.13	SYMMETRY——VETA	N 4.96
KURICGIS-	VETA II	3.28	KURIOSIS——VEIA I	I 0.17
			MACON VETA I	I 3.06
NUMBER OF	SURJECTS	334	NUMBER OF SUBJECTS	474
ם	ERCENITLES			*
CENTIMETE			PERCENTIL	ES
CLAILLIME	Ω	INCHES	CENTIMETERS	INCHES
10.13	1ST	3.99	10.93 1ST	4.30
10.30	SND	4.06	11.03 2ND	
10.41	3RD	4.10		4.34
10.55		4.15		4.37
10.76	10TH	4.23	11.22 5TH	4.42
10.89	15TH	4.29	11.43 10TH	4.50
11.00		4.33	11.57 15TH	
11.09	25TH		11.69 20TH	
11.18			11.79 25TH	4.64
11.26	30TH	4.40	11.88 30TH	4.68
	35TH	4.43	11.97 35TH	4.71
11.33	40TH	4.46	12.05 40TH	
11.41	45TH		12.12 45TH	
11.48	501H		12.20 50TH	
11.55	55TH	4.55	12.27 55TH	
11.63	60TH	4.58	12.35 60TH	
11.71	65TH	4.61	12.43 65TH	
11.80	701H	4.65		
11.89	75TH			· · - <del>-</del>
12.00		4.73	12.60 75TH	4.96
12.13	85TH	· · · · · ·	12.70 80TH	5.00
12.30		4.78	12.82 85TH	5.05
	90TH	4.84	12.98 90TH	5.11
12.56	95TH	4.94	13.23 95TH	5.22
12.73	971H	5.01	13.41 97TH	5.28
12.86	98TH	5.06	13.55 98TH	5.34
13.07	POTH	5.14	13.81 99TH	5.44
				J + "1"t

#### (H29) NEWICH-SUZIASALE IEWGH

The straight-line distance between the menton landmark at the bottom of the chin and the submasale landmark under the nose is measured.



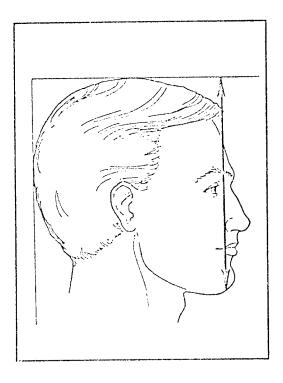
# VARIABLE NO. (H29) - MENTON-SUBMASALE LIGHTH

FEMALES

THE SIM	Mary Stati	STITES	गर	मा सामक	RY STATI	remire
CENTIMETE		INCHES				
			CERV	PIMETERS	•	INCHES
6 70	MEAN SE (MEAN)				_	
6.78	MEAN	2.67		7.19	MEAN	2.83
0.03	SE (MEAN)	0.01	•	0.02 5	E (MEAN)	0.01
0.52	ST DEV	0.20		0.53	ST DEV	0.21
0.02	SE(SD)	0.01			SE(SD)	
	` ,				()	0.01
4.80	MINIMUM	1.89		5 35 N	UNIMUM	2.11
	MAXIMUM					
0.55	realized	3.30		8.94 F	MUMIXAI	3.52
COEFF. OF	VARTATION	7 6%	<b>€</b>	ר מו מו	RIATION	7 18
SYMMETRY—		0.00				
					VETA I	
KURICSIS-	VETA II	3.65	KURIT	XSIS	VETA II	3.50
NUMBER OF	crimanizanc	224	9 40 40 000			
NUMBER OF	SODIECIS	334	. NUMBE	TROP SU	BUECIS	474
			-		· · · · · · · · · · · · · · · · · · ·	
77	ERCENTILES	,	,	TW-	~TATOTT T~	
CENTIMETE					CENTILES	
CTMATTAGET	rw)	INCHES	CENT	TMETERS		INCHES
5,45	lst	2.15				
				5.76		
5.68	2ND	2.24		6.01	2ND	2.37
5.81	3RD	2.29		6.15	3RD	2.42
5.97	5TH	2.35		6.33	5TH	2.49
6.17	10TH	2.43		6.55	10TH	2.58
6.29	15TH	2.48		6.69	15TH	
6.39	20TH	2.51		6.79		
6.46	25TH				20111	2.67
		2.54		6.87	25TH	2.70
6.53	30TH	2.57		5.94	301H	2.73
6.59	35TH	2.60		7.01.	35TH	2.76
6.65	40TH	2.62		7.07	40TH	2.78
6.71	45TH	2.54		7.13	45'IH	2.81
6.76	50TH	2.66		7.19	501H	
6.82	55TH	2.69		7.25		
6.89	60TH	2.71			55TH	2.85
				7.31	601H	2.83
6.95	65TH	2.74		7.38	65TH	2.91
7.02	<b>7</b> 0TH	2.76		7.45	70TH	2.93
7.10	<b>7</b> 5TH	2.80		<b>7.</b> 53	75TH	2.97
7.19	80TH	2.83		7.62	SOTH	3.00
7.30	85TH	2.87		7.73	85TH	
7.44	90TH	2.93				
7.65				7.86	90TH	3.10
		3.01		8.07	957H	
7.79	97TH	3.07	;	8.20	97TH	3.23
7.89	98TH	3.10		8.29	HT8 <b>e</b>	3.26
8.04	99TH	3.16		8,43		

## (HBO) TENTON-TOP OF HEAD

The vertical distance between the menton landmark at the bottom of the chin and the horizontal plane tangent to the top of the head is measured.



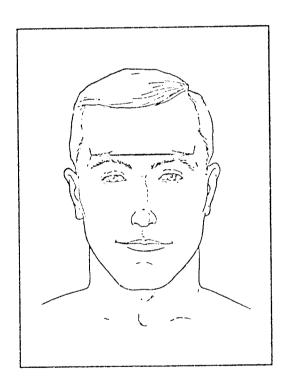
# VARIABLE NO. (HBO) — MENICH-TOP OF HEAD

FEVALES

***			_	
	MARY STATI	STICS	THE SUMMARY	STATISTICS
CENTIMETE	RS	INCHES	CENTIMETERS	INCHES
21.86	MEAN	8.61	23.09 M	EAN 9.09
0.05				MEAN) 0.02
	ST DEV	0.34	•	•
0.03	SE(SD)	0.01		
0.03	DE (OD)	0.01	0.03 52	(SD) 0.01
18.68	MINIMIM	7.35	20.89 MIN	IMUM 8.22
24.26	MAXIMIM	9.55		MIM 9.96
COEFF. OF	מסדבתידכאו	3 98	COPE OF INDI	AMTON 2 CO.
SYMMETRY—		0.03	CCEFF. OF VARI	
KURTOSIS—		3.20	SYMMETRY——VE KURIOSIS——VE	TA I -0.10
TOTA COSTS	AUTH TT	3.20	KURIOSIS——VE	TA II 2.73
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJ	ECTS 474
	ERCENTILES			NTILES
CENTIMETE	:S	INCHES	CENTIMETERS	INCHES .
19.75	1ST	7.78	21.21	1ST 8.35
20.12	2ND	7.92	21.38	2ND 8.42
20.32	3RD	8.00	21.51	3RD 8.47
20.55	5TH	8.09	21.69	5TH 8.54
20.85	10TH	8.21	22.00	10TH 8.66
21.03	15TH	8.28	22.21	15TH 8.74
21.17	20TH		22.39	20TH 8.81
21.29	25TH	8.38	22.54	25TH 8.87
21.40	30TH	8.42		30TH 8.92
21.50	35TH	8.46		35TH 8.97
21.60	40TH	8.50		40TH 9.02
21.70	45TH	8.54		
21.80	50TH	8.58		
21.91	55TH	8.63		50TH 9.10
22.02	60TH	8.67		55TH 9.14
22.15	65TH			60TH 9.18
22.13	- · <del>-</del>	8.72		65TH 9.23
	70TH	8.77		70TH 9.27
22.42	75TH	8.83		75TH 9.31
22.59	HI08	8.89		BOTH 9.36
22.78	85TH	8.97	23.93	B5TH 9.42
23.03	90TH	9.06	24.11	90TH 9.49
23.37	95TH	9.20		9.60 9.60
23.57	97TH	9.28	24.55	97TH 9.65
23.69	98TH	9.33	24.68	98TH 9.72
23.83	99TH	9.38	24.90	9.80 9.80

#### (H31) MENERLY FROMING EREADEH

The straight-line distance between the right and left frontotemporale landmarks on the temporal crests on each side of the forehead is measured.



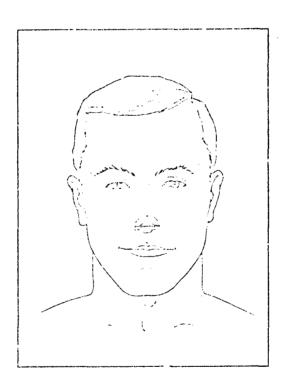
# VARIABLE NO. (HB1)—MINIMIA FRONTAL ERBADIH

#### FEMALES

THE SUM CENTIMETE	Mary Stati Rs	ISTICS INCLES	THE SUN CENTIMETY	Mary Stati Ers	ISTICS INCHES
10.32	MEAN	4.06	10.48	MEAN	4.13
	SE (MEAN)			SE (MEAN)	
0.46	ST DEV	0.18		ST DEV	
	SE(SD)		0.02		
				• •	
	MINIMIM			MINIPIUM	3.63
11.87	MAXIMUM	4.67	12.30	MAXIMIM	4.84
COEFF. OF	VARIATION	4.4%	COEFF. OF	VARIATION	4.6%
SYMMETRY-			SYMMETRY—		
KURICSIS-				VETA II	3.32
					0.02
NUMBER OF	SUBJECTS	334	number of	SUBJECTS	474
-	TT	~	***************************************		_
CENTIMETE	ERCENTILE			PERCENTILES	_
CENTINETE	ro	INCHES	CENTIMETE	<b>T</b>	INCHES
9.21	1ST	3.63	9.38	1ST	3.69
9.33	2ND	3.67	9.50		
9.41	3RD	3.70	9.58	3RD	3.77
9.53	5TH	3.75	9.69	5TH	3.81
9.71	<b>101H</b>	3.82	9.86	10TH	3.88
9.84	<b>1</b> 5TH	3.87	9.98	157.H	
9.94	201H	3.91	10.08	20TH	3.97
10.02	25TH	3.94	10.15		
10.10	30TH	3.97	10.23	30TH	
10.16	35TH	4.00	10.30	35TH	4.06
10.22	40TH	4.02	10.36	401H	4.08
10.28	45TH	4.05	10.42	45TH	
10.34	50TH	4.07	10.48	50TH	4.13
10.39	55TH	4.09	10.54	55TH	4.15
10.45	H109	4.11	10.60	HT09	4.17
10.50	65TH	4.14	10.66	65TH	
10.56	70TH	4.16	10 73	701H	4.22
10.63	75TH	4.18	10.80	<b>7</b> 5TH	4.25
10.69	HIOS	4.21	10.88	HTOS	4.28
10.78	85TH	4.24	10.97		4.32
10.88	9CTH	4.28	11.10	90TH	
11.05	957H	4.35	11.29	95TH	
11.17	97 IH	4.40	11.43	97TH	
11.26	98771	4.44	11.54	asth	4 54
11.43		4.50	11.73		4.62

## (HB2) INCCE LEGENDIN

The straight-line distance between the right and left alarm landmarks on the sides of the nostrils is measured.



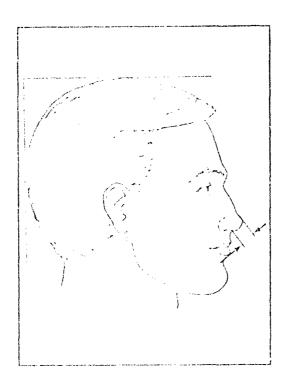
# Variable no. (HB2)—NOSE ERENDIH

#### FEMALES

FTW 7771 (777 71)	MISTALL COMPANY	P 410-1100 41-110		
	MARY STATI	ISTICS	THE SUMMARY STAT CENTIMETERS	TSTICS
CENTIMETE	48 -	INCHES	CENTIMETERS	INCHES
3.15	MEAN	1.24	3.46 MEAN	1.36
0.02	SE (MEAN)	0.01	0.01 SE(MEAN)	
0.32	SE (MEAN) ST DEV	0.13	0.3; an pra	0.12
0.01	SE(SD)	0.01	0.31 ST DEV 0.01 SE(3D)	0.12
51	()	0.01	0.01 3E(3D)	0.01
	MINIMUM		2.78 MINIMUM	1.09
4.46	MUMIXAM	1.76	5.13 MAXIMIM	2.02
COEFF. OF	VARIATION	10.13	COEFF. OF VARIATION	£ 03-
SYMMETRY-	VETA I	0.51	SYMMETOY—VEGA T	0.53
KURIOSIS-			SYMERRYVETA I NURTOSISVETA II	5.80
NUMBER OF	SUBJECTS	334		
***************************************			-	-4 / -4
P	ERCENTLES	•	PERCENTIFE	c
CENTIMETE		INCHES	PERCENTILE CHATAMETERS	naes
		12.011119		THOTES
2.53		1.00	2.84 1ST	1.12
2.58	511D	1.02	2.90 2ND	1.14
2.61	3RD	1.03	2.94 3RD	1.16
2.67	5711	1.05	3.00 5TH	
2.77	1011	1.09	3.09 10IH	
2.84	15TH	1.12	3.15 15TM	
2.89	2011	1.14	3.20 20H	
2.94	25'IH	1.16	3.25 25TH	
2.98	30711	1.18	3.29 30TH	
3.02	35'IH	1.19		
3.06	40111		3.33 35TH	
3.10		1.21	3.36 40TH	
	45TH	1.22	3.40 45TH	1.34
3.14	50!H	1.23	3.43 50TH	
3.17	55TH	1.25	3.47 55TH	1.36
3.21	eom	1.26	3.50 6011	1.38
3.25	65TH	1.23	3.54 65IN	
3.29	701H	1.30	3.58 7011	
3.34	75TH	1.31	3.62 7578	
3,39	ownti	2 21	3.68 80711	
3.45	851H	1,36		
3.54	90031	1.39		1.47
3.69	ONGAL	1.45	3.83 9074	
3.89	90111 95111		3.98 95TH	1.57
	7 3 4 1		4.09 9771	
3.89		1.53	4.18 9871	1.65
4.06	99111	1.60	4.35 99TH	1.71

#### (HB3) MOCE PROPERTIES

The straight-line distance between the promosale landwark at the tip of the nose and the submessale landwark under the nose is measured.



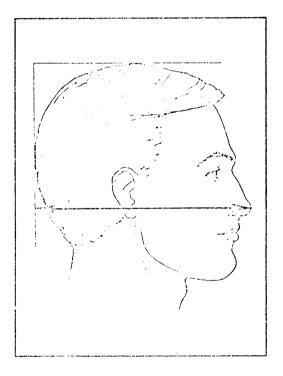
# VARIABLE NO. (HB3)—NOSE FROTRUSION

#### FEMALES

THE SUMPARY STAT CENTIMETERS	ISTICS INCHES	THE SUMMARY STATISTICS CENTIMETERS INCHES
1.96 MEAN 0.01 SE(MEAN) 0.21 ST DEV 0.01 SE(SD)	0.08	1.97 MEAN 0.78 0.01 SE(NEAN) 0.01 0.25 ST DEV 0.10 0.01 SE(SD) 0.00
1.23 MINIMUM 2.56 MAXINIM	0.48 1.01	1.28 MTHTUM 0.50 2.65 MAXITUM 1.04
COEFF. OF VARIATION SYMMETRY—VETA I KURTOSIS—VETA II NUMBER OF SUBJECTS	0.05 3.08	COEFF. OF VARIATION 12.4% SYMMETRY—VETA I -0.04 KURTCSIS—VETA II 2.83 NUMBER OF SUBJECTS 474
PERCENTILE CENTRETERS	S INCHES	PERCENTILES CENTIMETERS INCHES
1.44 1ST 1.53 2ND 1.58 3RD 1.63 5TH 1.70 10TH 1.75 15TH 1.78 20TH	0.57 0.60 0.52 0.64 0.67 0.69 0.70 0.71 0.73 0.74 0.75 0.76 0.77 0.78 0.79 0.80 0.31	1.38 1ST 0.54 1.45 2ND 0.57 1.50 3RD 0.59 1.56 5TH 0.62 1.65 10TH 0.65 1.72 15TH 0.68 1.77 20TH 0.69 1.81 25TH 0.71 1.85 30TH 0.73 1.88 35TH 0.74 1.91 40TH 0.75 1.94 45TH 0.76 1.97 57TH 0.78 2.01 55TH 0.79 2.04 60TH 0.80 2.07 65TH 0.81 2.10 70TH 0.83 2.14 75TH 0.84
2.15 80TH 2.19 85TH 2.26 90TH 2.34 95TH 3.38 97TH 3.41 96TH	0.89 0.92 0.94 0.95	2.18 80TH 0.86 2.23 85TH 0.88 2.29 90TH 0.90 2.38 95TH 0.94 2.43 97TH 0.96 2.48 98TH 0.98 2.54 99TH 1.00

#### (HD4) - FECTASALE-PROK OF HEND

The horizontal distance between the promasale landmark on the tip of the nose and the vertical plane tangent to the back of the head is measured.



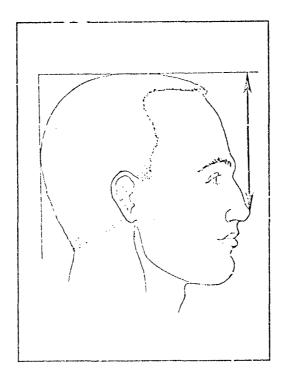
# VARIABLE NO. (HB4) -- FROMASALE-BACK OF HEAD

FEMALES MALES

THE SIM	MARY STATI	STICS	THE SUM	MARY STAT	TSTTCS
CENTIMETER		INCHES	CENTIMETE		INCHES
CENTIMETER	: <b></b>	TINCHES	CENTIMETE	arto.	TIACULER
21.09	MEAN	8.30	22.04	MEAN	8.68
0.04	SE (MEAN)	0.02		SE (MEAN)	
0.74	יויציביון וויס	0.33	0.71	מה הצת	0.28
0.74	ST DEV SE(SD)	0.23	0.71	ST DEV SE(SD)	0.20
0.03	SE(SD)	0.01	0.02	SE(SD)	0.01
18.29	MINIMUM	7,20	19.51	MINIMIM	7.68
	MAXIMUM			MAXIMUM	
COEFF. OF			COEFF. OF SYMMETRY— KURTYSIS—	VARIATION	3.2%
SYMETRY	VETA I	-0.39	SYMETRY—	VETA I	-0.15
KURIOSIS	-VETA II	3.65	KURIOSIS-	VETA II	3.16
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	474
ים	ERCENIILES		- <u>-                                    </u>	PERCENTILE.	
CENTIMETE		INCHES			TRICHES
البند للدنيقة فيلم للدا المنتلب		TIACTIES	CLATINGIA	27.72	المثلثا لمناه لمند
19.15		7.54	20.22	1ST 2ND	7.96
19.46	ZND	7.65	20.50	2ND	8.07
19.65	3RD	7.73	20.66		
19.87	5TH	7.82	20.86		8.21
20.18	101H		21.15		
20.38	157H		21.33		
20.52	201H	8.08	21.47	2011	8.45
20.65	25TH	8.13	21,59	25TH	8.50
20.75	301H	8 17	21.69	25TH 30TH	8.54
20.85				oemu	8.58
	33111	8.21 8.24	21.79	35TH 40TH	0.00
20.94	35TH 40TH			40111	8.61
21.03	45TH	8.28	21.96	45TH 50TH	8.65
21.11	501H	8.31	22.05	50TH	8.63
21.20	557H	8.35	22.13	55TH	
21.29	50TH		22.22		
21.38	65TH		22.31		8.78
				****	
21.47	701H	8.45	22.41	70111	8.32
21.58		8.49	22.51		8.86
21.69	HIOS	8.54	22.63	HTUS	8.91
21.83	HTC8	8.59	22,77		8.97
22.00	90174		22.95		9.03
22.26	95TH		23,21		
					9.14
22.42	97TH		23.38		
22.54	93TH	8.87	23.50		9.25
22.72	NIE 6	8.94	23.68	99TH	9.32

#### (H35) PICHUSALE-TOP OF HEAD

The vertical distance between the promasale landmark on the tip of the nose and the horizontal plane targent to the top of the head is measured.



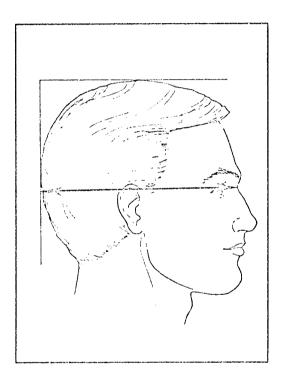
### VARIABLE NO. (HB5) -- PROFASALE-TOP OF HEAD

### FEMALES

	······································		•		
	Mary Stati			MARY STAT	
CLNTIMETE	185 .	INCHES	CENTIMET	ERS	INCHES
14.39	MEAN	5.66	15.29	MEAN	6.02
0.04		0.02	0.04		
0.79	ST DEV	0.31	0.77		
0.03	SE(SD)	0.01	0.03		
	• •				
11.93	MUNIMUM	4.70	13.35	MINIMUM	5.26
16.63	MAXIMUM	6.55	18.32	MUMIXAM	7.21
COEFF. OF	VARIATION	5.5%	COEFF. OF	VARIATION	5.0%
SYMMETRY-	VETA I	0.06	SYMMETRY-	VETA I	0.27
KURICSIS-	VETA II	3.31	KURTOSIS-	VETA II	3.31
NUMBER OF	SUBJECTS	334	NUMBER OF	SUBJECTS	474
		·	***		·····
Ī	PERCENTILES			PERCENITLE:	S
CENTIMETE	RS .	INCHES	CENTIMET	ERS	INCHES
12.35	1 000	4.00	12.62	1.00	F 26
12.53	1ST 2ND	4.86 4.99	13.63 13.78		
12.87	3RD	5.07	13.89		5.42 5.47
13.10	51H	5.16	14.05		5.53
13.41	1014	5.28	14.31		
13.61	15TH	5.36	14.50		
13.75	20TH	5.41	14.65		
13.88	25TH	5.46	14.78		
13.98	30TH	5.51	14.89		
14.08	35TH	5.55	15.00		
14.18	40TH	5.58	15.10		
14.27	45TH	5.62	15.19		
14.36	50111	5.65	15.28		
14.46	55TH	5.69	15.28		
14.55	601H	5.73	15.47		
14.65	65TH	5.73 5.77	15.56		
14.76	70TH	5.81	15.67		6.13
14.78	75TH	5.86		70111	6.17
15.02			15.78		6.21
15.18	801H 85TH	5.91 5.98	15.90		
15.40			16.05		
	90TH	6.06	16.25		6.40
15.72	95TH	6.19	16.57		
15.94	97TH	6.27	16.80		
16.10 16.34	98TH 99TH	6.34 6.43	16.99 17.32		
10.34	מונככ	0.43	17.32	991H	6.82

### (HB6) - SELLICH-PACK OF HEAD

The horizontal distance between the sellion largeark at the deepest point of the root of the nose and the vertical plane tangent to the back of the head is measured.



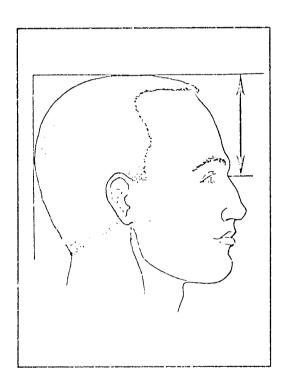
# VARIABLE NO. (HB6) —SELLICN-ERCK OF HEAD

FEMALES

	Mary Stati		THE SUMMARY ST	ATTSTICS
CENTIMETE	IRS .	INCHES	CENTIMETERS	INCHES
10.00	10000		10.00	5 50
18.99			19.80 MEAN	
	SE (MEAN)		0.03 SE(MEA	
	ST DEV	0.26	0.63 ST DE	
0.03	SE(SD)	0.01	0.02 SE(SD	) 0.01
16.48	MINIMUM	6.49	17.66 MINIMU	M 6.95
20.45	MAXIMUM	8.05	21.59 MAXIMU	M 8.50
COEFF. OF	VARIATION	3.4%	∞eff. of variation	ON 3.2%
SYMMETRY-		-0.36	SYMMETRY——VETA	
KURTOSIS-		3.42	KURIOSIS——VETA	
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECT	5 474
	PERCENTILES		PERCENIT	LES
CENTIMETE	TRS .	INCHES	CENTIMETERS	INCHES
17.27	1ST	6.80	18.31 1S	r 7.21
17.55	2ND	6.91	18.50 2N	
17.71	3RD	6.97	18.62 3R	D 7.33
17.91	5TH	7.05		H 7.39
18.18	10TH	7.16	19.01 10T	
18.35	15TH	7.23	19.16 15T	
18.48	201H	7.28	19.28 20T	
18.59	25TH	7.32	19.23 25T	
18.68	30IH	7.36	19.38 23H	
18.77	35TH	7.39		
18.85	40TH	7.42		H 7.73
1.8.93	45TH	7.45	19.72 45T	
19.01	50TH	7.48		H 7.79
19.09	35TH	7.52	19.87 55T	
19.17	60TH	7.55	19.95 60T	H 7.85
19.25	65TH	7.58	20.03 65T	H 7.89
19.34	70TH	7.61	20.12 70T	H 7.92
19.44	75'M	7.65	20.21 75T	H 7.96
19.54	HTC8	7.69	20.31 801	H 8.00
19.66	85TH	7.74	20.43 85T	H 8.05
19.82	901H	7.80	20.59 901	
20,03	95TH	7.89	20.81 957	
20.16	97TH	7.94		H 8.25
20.24	HT8e	7.97	20.96 97E	
20.24	99TH	8.02	21.22 99T	
20.30	22711	0.02	41.44 9911	H 8.35

### (HB7) SELLICH-TOP OF HEAD

The vertical distance between the sellion landmark at the deepest point of the root of the nose and the horizontal plane tangent to the top of the head is measured.



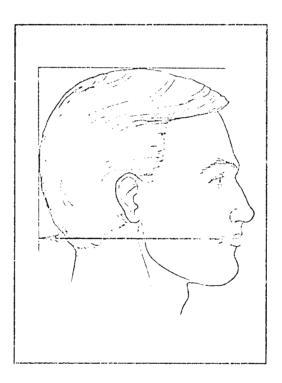
# VARIABLE NO. (H37) —SELLICN-TOP OF HEAD

### FEMALES

THE SU	Mary Stati	STICS	THE SUMM	ARY STATI	STICS
CENTIMET	ers	INCHES	CENTIMETER		INCHES
	MEAN	4.14	10.99	MEAN	4.33
	SE (MEAN)	0.02	0.03	SE (MEAN)	0.01
	ST DEV	0.27	0.64	ST DEV	0.25
0.03	SE(SD)	0.01	0.02	SE(SD)	0.01
9 50	Beile Tries or your	2 22			
	MINIMUM			MINIMIM	
12.50	MLVITXAM	4.96	13.40 1	MUMIXAM	5.28
	VARIATION	6.5%	COEFF. OF V	NOTTPATER	5.8%
SYMMETRY-	VETA I	0.19	SYMMETRY-		
KURTOSIS-	VETA II	3.22	KURICSIS-		
Manager on	CT 777 . TTTC				
NUMBER OF	SUBJECTS	334	NUMBER OF SU	JEJECTS	474
			*		
F	ERCENTILES		PEF	CENTILES	
CENTIMETE	RS .	INCHES	CENTIMETERS	_	INCHES
				•	
8.93	1ST	3.52	9.54	1ST	3.76
9.13	2ND	3.60	9.73	2ND	3.83
9.25	3RD	3.64	9.85	3RD	3.88
9.42	5TH	3.71	9.99	5TH	3.93
9.66	10TH	3.80	10.20	10TH	4.02
9.83	15TH	3.87	10.34	151H	4.07
9.95	20TH	3.92	10.45	20TH	4.11
10.06	25TH	3.96	10.54	25TH	
10.16	30TH	4.00	10.63		4.15
10.25	35TH	4.03	10.63	30TH	4.19
10.33	40TH	4.07		35TH	4.22
10.42	45TH	4.10	10.80	40TH	4.25
10.50	50TH		10.88	45TH	4.28
10.58		4.13	10.95	50TH	4.31
	55TH	4.17	11.04	55TH	4.35
10.67	60TH	4.20	11.12	60TH	4.38
10.76	65TH	4.23	11,21	65TH	4.41
10.85	70TH	4.27	11.30	70TH	4.45
10.95	75TH	4.31	11.41	75TH	4.49
11.07	HIOS	4.36	11.52	80TH	4.54
11.22	HT23	4.42	11.66	85TH	4.59
11.41	90TH	4.49	11.83	90IH	4.66
11.70	95TH	4.61	12.07		
11.91	97TH	4.69		95TH	4.75
12.08	98TH	4.76	12.21	97TH	4.81
12.35	99TH	4.86	12.31	98TH	4.85
ب ∙ صد	221.11	4.00	12.44	99TH	4.90

### (HBS) STORICY-ENCY OF HEND

The horizontal distance between the stomion landmark at the center of the mouth where the lips touch when the mouth is closed and the vertical plane tangent to the back of the head is measured.



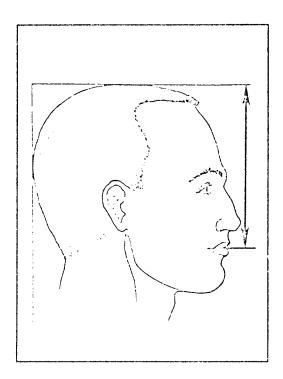
### VARIABLE NO. (HBS) -- STONICH-BACK OF HEAD

FEMALES

***************************************				
THE SUM	MARY SIATI RS	STICS INCHES	THE SUMMARY STAT CENTINETIERS	
0.04	MEAN SE (MEAN) ST DEV	0.02	19.77 MEAN 0.04 SE(MEAN) 0.77 ST DEV	0.01
3.03	SE(SD)	0.01	0.03 SE(SD)	
	MLMIMIM MLHIXAN	6.40 8.42	17.62 MINIMUM 22.25 MAXIMUM	
COEFF. OF SYMMETRY—KURICSIS—	-VETA I	0.00	COEFF. OF VARIATION SYMMETRY——VETA I KURICSIS——VETA II	0.13
NUMBER OF	SUBJECTS	334	NUMBER OF SUBJECTS	474
P	ERCEVIILES		PERCENTILE	ß
CENTIMETE	RS	INCHES	CENTIMETERS	INCHES
	ist		17.91 LST	
	2ND	6.84	18.16 2ND	
17.52	3RD 5TM	6.90	19.31 3RD	7.21
17.71	10TH	6.97	18.51 5TH 18.79 10IH	7.29
	101M 151H		18.79 10IM 18.98 15TH	7.40
18.33	201H		19.13 20IH	
18.46			19.15 25TH	7.58
18.57	301H	7.27 7.31	19.36 30TH	7.62
18.68	35TH	7.35	19.46 35TH	7.66
	40TH		19.56 40TH	7.70
	45TH		19.66 45TH	
18.97			<b>19.75</b> 50TH	
19.07	20.1H	7.51	19.95 55034	7.81
	60IH		19.85 55TH 19.95 60TH	7.85
19.27	65'IH		20.05 65TH	7.89
19.38	701H		20.16 7CTH	
19.51	75TH	7.68	20.28 75TH	
19.65		7.73	20.41 80TH	
19.81	85TH	7.80	20.57 85TH	
20.02	90TH	7.88	20.78 90TII	8.18
20,34	95TH	8.01	21.03 95TH	8.30
20.55	9711	8.09	21.28 97TH	8.33
20.70 20.94	98TH 2007	8.15	21.43 98TH	8.44
£U+94	99TH	3,24	21.65 99TH	8.52

### (ID9) SATHCH-10P OF IEDD

The vertical distance between the stonion landwark at the center of the mouth where the lips touch when the mouth is closed and the horizontal plane tangent to the top of the head is measured.



# VARIABLE NO. (HB9) -- SIGHICH-TOP OF HEAD

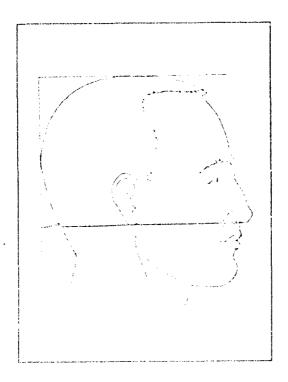
FEMALES

MILES

	MARY STATI			Mary Stati	
CENTIMENT	iks	INCHES	CENTIMETI	PS	INGIES
17.60	MEAN	6.93	12.59	MEAN	7.32
0.04	SE (MEAN)	0.02		SE (MEAN)	
	ST DEV	0.30		ST DEV	
0.03	SE(SD)		0.02		0.01
35 20	MTNEETERT	6.02	10.40	1 (T) TY 0 (I to 2	
	MINIMAM			MINIMAM	
19.80	MULLINGM	7.80	20.80	MAXIMUM	8.19
COEFF. OF	VARIATION	4.3%	CONTR. OF	VARIATION	3.9%
SYMMETRY—	VETA I	0.10	SYMMITTY—		
KURIOSIS—	VETA II	3.24	NUMBER OF THE PROPERTY OF THE	VETA II	2.83
HUMBER OF	SURJECTS	334	NUMBER OF	SUBJECTS	474
	PERCENIILES		I	FROMILE	3
CETTMET	EPS .	INCHES	CENTIMETE	TS .	INCHES
15.70	1ST	6.18	17.05	157	6.71
16.01	2ND	6.00	17.20	2ND	6.77
16.18	3RD	6.37	17.29	3RD	
16.40	5111	6.45	17.43	51H	6.86
15.68	10111	6,57	17.66	COIH	6.95
16.85	15TH	6.64	17.82	Join 19th	7.02
15.99	501H	6.69	17.96	201 <b>H</b>	7.07
17.10	25TH	6.73	18.03		7.12
17.20	301.H	6.71	18.18	30/111	7.16
17.30	35TH	6.81	18.29	3574	7.20
17.39	40IH		18.38	40111	7.24
17.48	45111	6.33	13.43	15754	7.27
17,57	50TH	5.92	18.57	501H	7.31
17.65	55 <b>111</b>	6.95	18.67	55 <b>TH</b>	7.35
17.76	6(J]H	6.99	18.77		7.39
17.86	65TM	7.03	13.67		7.43
17.97	701H	7.07	18.98	701 <b>H</b>	7.47
13.69	75TH	7.12	19.00		
13.23	EOHI	7.13	19.22	22 (3123	7 57
13.40	89114		19.37		7.43
18.51	90714	7.33	19.56	.001H	7.70
13.93	97/371	7.45	19.93	9511	7.81
19.13	9771	7.53	20.00		7.87
19.27	92131	7 44	20.12	97.11 9801	7.87
19.43	99111		20.30		
# × * * * * * * * * * * * * * * * * * *	J 7 X I I	1.127	AU. 30	pr/171	7.93

# (E440) STERMENEE-MACK OF HEAD

The horizontal distance between the subpassile landwark under the node and the vertical plane tangent to the back of the head is measured.



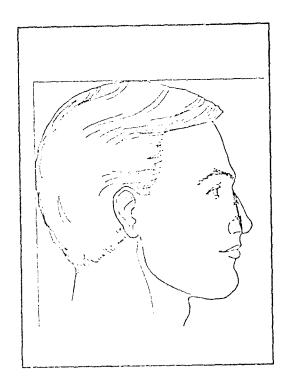
# VARIABLE NO. (H40) — SUBPASALE-BACK OF HEAD

FEMALES

-				
THE SUMP	ARY STATI	STICS	THE SUMMARY S	STATISTICS
CENTIMETERS		INCHES	CENTIMETERS	INCHES
		-		
	MEAN		20.30 ME	
0.04 S	SE (MEAN)	0.02	0.03 SE(M 0.71 ST)	AN) 0.01
0.75	ST DEV	0.30	0.71 Sr I	EV 0.28
0.03	SE (SD)	0.01	0.02 SE(S	SD) 0.01
16.58 M	MINIMUM	6.53	18.07 MENE	ALM 7.11
21.35 M	MUMIXAI	8.41	22.41 MAXI	WM 8.82
COEFF. OF VA	NOTIPATE	3 8%	COEFF. OF VARIAY SYMMETRY—VETT KURTOSIS—VETT	rTCN 3.5%
SYMMETRY——			SVEWETDV——VETT	1 T -0.05
KURIOSIS			KURIOSISVEI	A TT 2 96
WW.GOOD .	ATITU II	J. 01	IUI/(COID - VIII	\$ 11 2.50
NUMBER OF SU	BUECTS	334	NUMBER OF SUBJEC	CTS 474
PEF	RCENTILES	;	PERCEN	PILES
CENTIMETERS				INCHES
17.69	1ST 2ND	6.97	18.57 18.82	LST 7.31
17.92	2ND	7.05		
13.07	3RD	7.11	<b>18.</b> 96	3FD 7.46 5TH 7.54
18.26	STH	7.19	19.14	5TH 7.54
13.55	10TH	7.30	19.40	MH 7.64
18.74	15TH	7.38	19.57	7.71 7.76
18.89	201H	7.44	19.71 2	MH 7.76
19.02			19.82 2	5TH 7.80
19.13	25TH 30TH	7.53	19.82 2 19.92 3	5TH 7.80 OTH 7.84
19.24	35TH	7.57		
19.33	401H	7.61	20.11 4	7.88 7.92
	45711		20.20 4	5TH 7.95
19.52	SOTH	7.63	20.29 5	OTH 7.99
19.61		7 70	20.23 5	OTH 7.99 5TH 8.02
19.70	FORT	7.76	20.00 D	7111 G.04
19.79	60TH 65TH	7.79	20.48 6 -20.57 6	01H 8.06 51H 8.10
			20.07	JIII O.LU VIII O.LU
77.07	70IH 75IH	7.83	20.68 7	WH 8.14
20.00	75111	7.87	20.79 7	5TH 8.19
	801H			MH 8.23
20.25	85TH	7.97	21.06 S 21.24 9	5111 3.29 7111 8.36
20.43				
20.53	95TH 97TH	8.14	21.49 9 21.64 9	5TH 8.46
20.85	97TH	8.21	21.64 9	7TH 8.52
20.98	98TH	3.26	21.73 9	31H 8.56
21.18	99IH	8.34		9TH 8.61

### (H41) SUPERSALE-STUDIES LEAGH

The straight-line distance between the submessale landmark under the nose and the sellion landwark at the despest point of the masal root is measured.



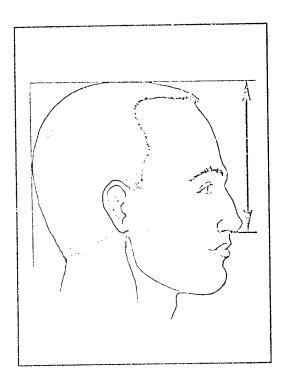
# VARIABLE NO. (HAI) -- SUENDSALE-SELLICN LEXELH

### FEMALES

	MARY STATI			STATISTICS
CENTIMETI	285	INCHES	CFNTIMETERS	INCHES
5-01	MEAN	1.97	5.24 M	EAN 2.06
0.02	SE (MEAN)	0.01	0.02 SE(	
0.36	ST DEV	0.14	0.36 ST	DEV 0.14
0.01			0.01 SE	(SD) 0.91
	()			()
4.04	MINIMIM			IMIM 1.69
6.46	MAXINUM	2.54	6.36 MAX	IMUM 2.50
COEFF. OF	VARIATION	7.2%	COEFF. OF VARI	ATICN 6.8%
SYMMETRY-	VETA I	0.21	SYMMETRY——VE	TA I 0.17
		3.32	KURIOSISVE	TA II 2.99
NUMBER OF	SUBJECTS	334	NUMBER OF SURI	ecis 474
I	PERCENTILES		PERCE	NITIES
CENTRETE		INCHES	CENTIMETERS	
4.17	ısr		4.42	1ST 1.74
4.29	2MD		4.52	2ND 1.78
4.35	3PD	1.71	4.58	3RD 1.80
4.44		1.75		5TH 1.84
4.56	10TH	1.80	4.78	10TH 1.88
4.64		1.83		15TH 1.92
4.70		1.35		201H 1.94
4.75	25TH	1.87	4.99	25TH 1.97
4.81	30TH	1.89	5.04	30TH 1.99
4.85	35TH	1.91	<b>5.</b> 09	35TH 2.00
4.90	40TH	1.93	5.14	40TH 2.02
4.95	45TH	1.95	5.18	45TH 2.04
5.00	50TH	1.97		501H 2.06
5.04	55TH	1.98	5.27	55TH 2.07
5.09	60TH	2.00	C 31	COTT! 0 00
5.14	65TH	2.02	5.36	65TH 2.11
5.19	70TH	2.05	5.41	701H 2.13
5.25	75'IH	2.07		75TH 2.15
5.32	80TH	2.03		801H 2.18
5.39	85TH	2.12		35TH 2.20
5.49		2.16	5.69	90TH 2.24
5.61	95TH	2.21	5 04 /	action and
5.69		2.24	5.93	
5.73	977.H 98TH	2.24	6.00	97TH 2.34
	2011	2.20		98TH 2.36
5.79	99TH	2.28	6.12	99TH 2.41

### (H42) SURRINGNIE-TOP OF HEND

The vertical distance between the submasale landmark under the nose and the horizontal plane tangent to the top of the head is measured.



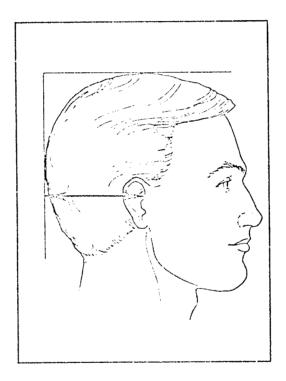
# VARIABLE NO. (H42) — SUBVASALE-TOP OF HEAD

### FEMALES

	······································			
THE SUM	MARY STAT	T CYTIT CO		
CENTIMETE	DO MAKI DIVI		THE SUMMARY	STATISTICS
CLIVITY (I)	<i>r</i>	INCHES	CENTIMETERS	INCHES
15 40	MEAN	C 10		
0.04				AN 6.37
	/		0.03 SE(M	EAN) 0.01
· · · · <del>-</del>	ST DEV	3.2.3	0.71 ST	DEV 0.28
0.03	SE(SD)	0.01		SD) 0.01
12.96	MUNIMUM	E 30		
17.50	MAXIMUM		14.13 MINI	YUM 5.56
47.50	MALLION	6.89	18.91 MAXII	MJM 7.44
COEFF. OF V	VARIATION	4.6%	COEFF. OF VARIA	TTOM
SYMMETRY	-VETA I	9.04	CVMMETOV ANCIA	TION 4.4%
KURTOSIS	VETA II	3.43	SYMMETRY——VETY	1 1 0.23
			KURICSISVETA	A II 3.22
NUMBER OF S	SUBJECTS	334	NUMBER OF SUBJEC	YT'C 4514
			- HOLDER OF SOIDER	.15 4/4
TV	70.000 North			
CENTIMETER	RCEMITLES		PERCENI	TLES
CLITTIMIE	<b>~</b>	INCHES	CENTIMETERS	INCHES
13.72	1ST	5.40	14.65	
13.99	2ND	5.51		ST 5.77
14.14	3RD	5.57		ND 5.82
14.34	51H			RD 5.86
14.61		5.65		TH 5.92
14.78	10TH	5.75		TH 6.01
	15TH	5.82	15.44 15	TH 6.08
14.92	20TH	5.87		IH 6.13
15.03	25TH	5.92		TH 6.13
15.13	30TH	5.95		TH 6.22
15.22	35TH	5.99		TH 6.26
15.30	40TH	6.02		
15.39	45TH	6.06		
15.47	50TH			
15.56	55TH	6.12		H 6.36
15.64	60TH			TH 6.40
15.73	65TH	6.19	16.34 607	
15.83	701H	6.23	16.43 657	H 6.47
15.94	75TH		16.53 707	H 6.51
16.07		6.28	16.63 757	H 6.55
16.22	HIO3	6.33	16.76 807	
		6.39	16.90 857	H 6.65
16.42	901H	6.46	17.09 90I	
16.72		6.58		ĭ 6.84
16.93	97TH	6.67	17.58 971	
17.09	98TH	6.73	17.74 981	
17.35	99TH	6.83		
		-	18.01 991	H 7.09

### (H43) TRAGICN-ENCK OF HEAD

The horizontal distance between the tragion landmark on the cartilaginous flap in front of the earhole and the vertical plane tangent to the back of the head is measured. The values of the right and left dimensions are averaged.



# VARIABLE NO. (H43)—TRAGICM-ENCX OF HEAD

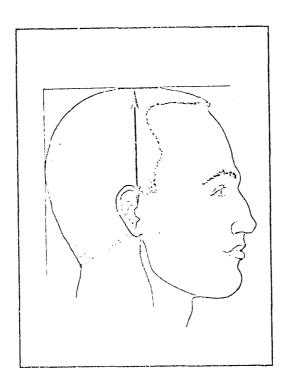
### FEMALES

### Males

		······	<del></del>	
THE SUI	MARY STATI	ISTICS INCHES	THE SUMMARY STAT	
	Land Bar	Tr.Cana	CENTINGIERO	INCHES
9.72	MEAN	3.83	9.86 MEAN	0.88
	SE (MEAN)	0.01	0.02 SE (MEAN)	
0.58	ST DEV	0.23	0.52 ST DEV	
0.02	SE(SD)	0.01		
0.02	טבו (טט)	0.01	0.02 SE(SD)	0.01
7.99	MINIMIM	3.15	8.26 MININUM	3.25
11.57	MAXIMUM	4.56	11.34 HAXIMIM	
೧೧೯೮೮ ೧೮	VARIATION	C 03		
SYMMETRY—			CCEFF. OF VAPIATION	
	· · · · · · · · · · · · · · · · · · ·	-0.01	-	0.18
www.	VEIA II	3.24	KURTUSIS——VETA II	2.85
NUMBER OF	SUBJECTS	334	MUMBER OF SUBJECTS	474
***************************************			-	
1	PERCENITLES	;	PERCENTILE	'S
CENTIMET	ERS	INCHES	CENTIMETERS	INCHES
			which I do take and do have but	
8.28	1ST	3.26	8.77 1ST	3.45
8.48	2ND	3.34	8.83 2ND	
8.61	3RD	3.39	8.96 3RD	
8.77	5TH	3.45	9.06 5TH	
9.00	10TH	3.54	9.22 10TH	
9.15	<b>1</b> 5TH	3.60	9.33 15TH	
9.26	20TH	3.65	9.42 201H	
9.36	25TH	3.68	9.50 25TH	
9.44	30TH	3.72	9.57 30TH	-
9.52	35TH	3.75	9.64 35TH	
9.59	40TH	3.77	9.71 40TH	
9.66	45TH	3.80	9.77 45IH	
9.72	50TH	3.83	9.84 50TH	
9.79	55TH	3,85	9.91 55TH	
9.86	60TH	3.88	9.98 6011	
9.93	65TH	3.91	10.05 65TH	
10.01	70TH	3.94	10.13 70TH	
10.09	75TH	3.97	10.15 7611 10.21 75TH	4.02
10.18	SOTH	4.01	10.21 751H 10.31 80TH	
10.29	85TH	4.05	10.31 801A 10.42 85TH	
10.44	90TH	4.11	10.42 851A 10.56 90TH	
10.66	95TH	4.20		
10.82	97TH	4.26	10.76 95TH 10.89 97TH	
10.94	98TH	4.31		4.29
11.14	99TH		10.98 98TH	4.32
77 - 74	ラブエロ	4.38	11.12 9914	4.38

#### (H44) TRAGICA-TOP OF HEAD

The vertical distance between the tragion landwark on the cartilaginous flap in front of the earbole and the homizontal plane targent to the top of the head is measured. The values of the right and left dimensions are averaged.



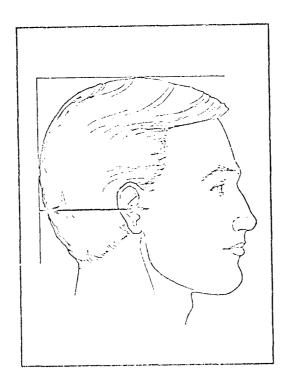
# VARIABLE NO. (H44) —TRAGICY-TOP OF HEAD

### FEMALES

THE SUMMARY STAT CENTIMETERS	TISTICS INCHES	THE SUM CENTIMETER	iary stai S	TISTICS INCHES
70.40				
12.48 MEAN		13.05	MEAN	5.14
0.03 SE(MEAN)	0.01	0.03	SE (MEAN)	
0.54 ST DEV	0.21	0.55	ST DEV	
0.02 SE(SD)	0.01	0.02	SE(SD)	
•		0.02	DE (31)	0.01
11.00 MINIMUM	4.33	11.48	MITATY ART IN F	4 ===
14.52 MAXIMUM	5.72		MINIMUM	
		14.90	MUMIXAM	5.90
COEFF. OF VARIATION	4.3%	COEFF. OF V	MOTITATRA	4.2%
SYMMETRY——VETA I	0.28	SYMMETRY-	-VETA T	0.09
KURIOSISVETA II	3.55	KURICSIS		
		YOU CO'CO	-VEIA II	3.06
NUMBER OF SUBJECTS	334	NUMBER OF S	UBUECTS	474
DETACEARDER TO		And a William of the Control of the		
PERCENTILE: CENTIMETERS			RCENTILEX	3
CENTITUETERS	INCHES	CENTIMETERS	S	INCHES
11.13 1ST	4.38			
11.36 2ND		11.77	lst	4.63
11.48 3RD	4.47	11.91	2ND	4.69
	4.52	12.01	3RD	4.73
	4.58	12.14	5TH	4.78
	4.66	12.34	101H	
11.96 15Th	4.71	12.47	15TH	4.91
12.06 20TH	4.75	12.58	20111	4.95
12.14 25TH	4.78	12.68	25TH	4.99
12.20 30TH	4.81	12.76	30TH	5.02
12.27 35TH	4.83	12.84	35TH	5.05
12.33 40TH	4.85	12.91	40TH	
12.39 45TH	4.88	12.98	_	5.03
12.45 50TH	4.90	13.05	4517.4	5.11
12.51 55TH	4.93		50TH	5.14
12.58 6C.H	4.95	13.12	55 <b>TH</b>	5.16
12.65 65TH	4.98	13.19	601H	5.19
12.72 70TH		13.26	65TH	5.22
	5.01	13.34	70TH	5, 25
, , , , , , , , , , , , , , , , , , , ,	5.04	13.42	75'IH	5.28
	5.08	13.51	HT08	5.32
13.02 85TH	5.13	13.62	85TH	5.36
13.18 90TH	5.19	13.76	90TH	5.42
13.42 95TH	5.28	13.97	95TH	5.50
13.59 97TH	5.35	14.11	97TH	-
77 71 00000	3.33	_L^4 = 1.1		5 55
13.71 98TH	5.40			5.56 5.60
13.91 99TH		14.22 14.39	981H 981H 991H	5.56 5.60 5.66

### (H45) ZYCICN-BACK OF HEAD

The horizontal distance between the zygion landmark on the zygomatic arch, or upper cheekbone, and the vertical plane taugent to the back of the head is measured. The values of the right and left dimensions are averaged.



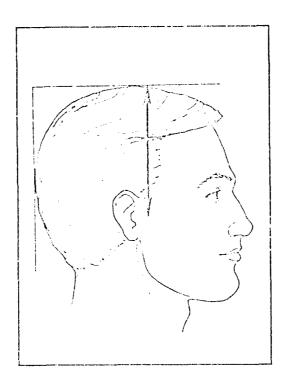
# VARIABLE NO. (H45) -- ZYGICN-EACK CF HEAD

# MALES

	······································	·····		
Hard ver	m == +== = === = = = = = = = = = = = = =			
	MARY STATT		THE SUMMARY STATE	ISTICS
CENTIMETE	RS	INCHES	CENTIMETERS	INCHES
	MEAN		13.21 MEAN	5.20
0.04	SE (MEAN)	0.02	0.03 SE (MEAN)	0.01
0.75	ST DEV	0.30	0.57 ST DEV	0.22
0.03	SE(SD)	0.01	0.02 SE(SD)	
			0.02 55(85)	0.01
10.67	MINIMIM	4.20	11.48 MINIPAM	4 50
15.34	MAXIMUM	6.04	14.90 MAXIMUM	4.52
20101	**************************************	0.04	14.90 MAXIMUM	5.87
COEFF. OF	VARIATION	5.9%	COFFF. OF VARIATION	1 20
SYMÆTRY—		0,06		
KURICSIS-		3.02	The state of the s	0.00
	• *************************************	3.02	KURICSIS—VETA II	2.90
NUMBER OF	CIBIRAN	334		
1.0112/11( 01	DODDICIS	224	NUMBER OF SUBJECTS	474
	······································			·
77	ERCENTILES			
CENTIMETE			PERCENTILES	
CERTIFICIE	rus .	DICHES	PERCENTILES CENTIMETERS	INCHES
11.06	157	4.35		
11.20		4.41	11.84 1ST	
11.31	3RD	4.45	12.04 2ND	4.74
11.46	5TH	4.45	12.15 3RD	
	DIM	4.51	12.30 5TH	4.84
11.73		4.62	12.50 10TH	4.92
11.92	15TH	4.69	12.64 15TH	4.98
12.08		4.75	12.74 201H	5.02
12.21		4.81	12.83 25TH	5.05
12.33		4.85	12.91 30TH	5.08
12.44	35TH 40TH	4.90	12.98 35TH	5.11
12.54	40TH	4.94	13.06 40TH	5.14
12.64		4.98	13.13 45TH	5.17
12.73	50TH	5.01	13.20 50TH	5.20
12.83	55IM		13.27 55TH	
12.92	60TH	5.09		5.23
13.02	65TH	-		
13.12	701H	5.17	13.42 65TH	5.28
13.23	75'IH	5.21	13.50 70TH	
13.35			13.59 757H	5.35
	80TH	5.26	13.69 80TH	5.39
13.49	85/11	5.31	13.81 85TH	5.44
13.67	90IH		13.96 90TH	5.50
13.95	95TH	5.49	14.17 95774	
	97TH		14.29 97TH	5.63
14.30	98TH 99TH	5.63	14.37 9811	5.66
14,57	99TH	5.74	14.48 99TH	5.70
				~ .

### (IM6) ZYCICH-YCP OF HEAD

The vertical distance between the zygion lendwark on the zygomatic arch, or upper cheelbone, and the horizontal plane tengent to the top of the head is measured. The values of the right and left dimensions are averaged.



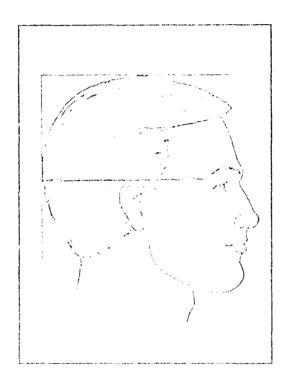
# VARIABLE NO. (H46) — ZYGICH-TOP OF HEAD

FEMALES

गमर डाउ०७	SY STAT	ISTICS		THE SUMP CENTIMETERS	NRY STATT	STICS
CEALMETERS	•	DICHES		CEMINETERS	: · · · · · · · · · · · · · · · · · · ·	TYCHES
المرافق المرافقية المشابلة المستعمية	,	21102220		Control of the state of the sta	,	النهاية المسااعية
12.62	MEAN	4.97		13.10	MEAN	5.16
		0.01			SE (MEAN)	
0.52	ST DEV	0.20		0.54	ST DEV	0.21
0.02	SE(SD)	0.20 0.01		0.02	ST DEV SE(SD)	0.01
0.00		3.02		****	()	
12.23 %	MILITARIA	4.42		11.30 2	MIMIMIM	4.45
14.10 F	MIMIXG	5.55		14.81	MAXIMUM	5.83
CEFF. OF VA	RIATION	4.1%		COEFF. OF W	ARIATION	4.1%
VISCETRY	VEIA I	0.25		SYMMITRY	-VEDL. I	0.06
WYZETRY	-VETA II	3.23		COEFF. OF VE SWIFFIRY HURICGIS	-VETA II	3.28
		512,5		A SOLVE THE SECOND SECOND		
UMBER OF SU	BIECES	334		NUMBER OF SE	JULICIS	474
anne ay v 1988 i ramana day Farth, merananggap biter dana, nggander	-					
PEF	CENTILE	5		PEI CENTINATHE	CENTLES	5
CETTIETES	5	LICES		CENTRATES	3	INCHES
11.38 11.59	lst	4.48		11.86	IST	4.67
11.59	2110	4.56		12.02	2110	4.73
11.71	3RD	4.61		12.12	3RD	4.77
11.85 12.02	STR	4.66		12.25	5131	4.82
12.02	1001	4.73		12.44	5731 10731	4.90
12.13	. 151H	4.78		12.57		
12.21	201H	4.78 4.81		12.66	2011	4.95 4.99
		4.84		12.75		
12.05	30/Ji	4.36		12.82	307134	5.05
12.41	35771	4.89		12.80	3577	5.03
12.52	4077	4.91 4.93		12.96 13.02	477H 457H	5.13
12.53	50 <b>73H</b>	4.95	•		50°H	
12.64	5511	4.95 4.98		13,15	SETH	
12.71	ठुकाख	5.00		12.22		5.20
12.77	65734	15 17 7		13.29	67411	
12.85	7013	5.05		11.17	7007	7 7K
				23,46		
10.03	3003 Senti	5.09 5.10 5.13		10.04	0.584.83	5.33 5.33
10.07	pi	7, 1,3		13.65		5.37
13.31	20.00	5. '3 . i		13.77	90711	
13.13	7,7,77 <b>*</b> ;	45 7 5		14.60		
13 77	22.4	5 20				
13.70 13.72	30 mm	क्राक्ट विश्व स्ट्रेड		人 生生品 199 生 食: 休日	977H 687H	フィフィース おき
13.03	993H	5.90		± 8 − 2, 8 1		
1.1	2.7 + 15	3 . 3 3		± e ≠ tei2	27333	0.07

### (H47) ZYOTEVERHALE-PYCK OF HEAD

The horizontal distance between the synofrontale larghark at the upper margin of the bony eye socket and the vertical plane cargent to the back of the head is measured. The values of the right and left dimensions are averaged.



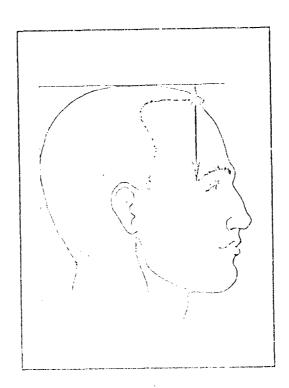
### VARIABLE NO. (HA7) — ZYGCFYCNEALZ-EACK OF HEAD

FEMALES MALES

			<del></del>		<del></del>
	Tary Stati			Mary Stat	
CENTIMETER	ঙ	INCHES	CENTIMETI	ers	INCHES
16.25	MEAN	6.40	17.27	MEAN	6.80
0.04	SE (MEAN)	0.01	0.03	SE (MEAN)	
	ST DEV	0.25	0.56	, ,	
0.02	SE(SD)	0.01	0.02	SE(SD)	0.01
0.00	03(00)	0.01	0.02	55(55)	<b>0.01</b>
13.47	MINIMIM	5.30	15.61	MIMIDIUM	6.15
17.94	MAXIMUM	7.06	18.86	MAXIMAM	7.43
COEFF. OF V	VARIATION	3.9%	COEFF. OF	VARIATION	3.3%
SYMMETRY-		-0.50		VETA I	
KURICSIS		4.22		VETA II	
101120012	******	1 1 1.63	10.0015	7 x 3 x 4 4 4 4 4	2.07
NUMBER OF S	SUBJECTS	334	NUMBER OF	SUBJECTS	474
Pf	RCENTILES	;	]	PERCENTILS	S
CENTIMETER		Maies	CEMIMET		INCHES
		21.02.000	Section 4 de la section de la		XII CALLEX
14.50	lst	5.71	15.98	1ST	6.29
14.81	2MD	5,83	16.12	2ND	6.35
14.98	3RD	5,90	16.21	3RD	6.38
15.19	51H	5.98	16.33	5TH	6.43
15.47	1011	6.09	16.54	10111	6.51
15.64	15TH	6.16	16.68	15TH	
15.77	2011	6.21	16.79		
15.87	25TH	6.25	16,89		
15.96	30111	6.28	16.98		
16.04	35TH	6.32	17.06		
16.12		6.35			
	40TH		17.13	401H	
16.20	45TH	6.38	17.21	45TH	6.77
16.27	50TH	6.41	17.28	50TH	
16.35	557H	6.44	17.35	55 <b>TH</b>	6.83
16.42	60TH	6.47	17.42	60TH	6.85
16.50	65/TH	6.50	17.49	65TH	6.89
16.53	701H	6.53	17.57	701H	6.92
16.67	75TH	6.56	17,65	75111	
16.73	801H	6 50	17.74	801H	
16.90	35TH	6.65	17.85	85TH	
17.05	90IH	6.71	17.98		
17.05				90th	
	95T.i	6.30	18.19		
17.40	97111	6.85	. 18.32	97111	
17.49	98TH	6.89	18.43		
17.62	391H	6.94	18.60	HPCC	7.32

### (H48) ZYCOFFCITALE-TCP OF HEAD

The vertical distance between the zygofrontale landwark at the upper margin of the bony eye socket and the horizontal plane tangent to the top of the head is measured. The values of the right and left dimensions are averaged.



### VARIABLE NO. (H48) — ZYGOFFCMEALE-TOP OF HEAD

### FEMALES

THE SUR CENTIMETE	Mary Statt IPS	STICS INCHES	THE SUMMARY STATE CENTIMETERS	ISTICS INCHES
0.03 0.61	MEAN SE (MEAN) ST DEV SE (SD)	0.01 0.24	10.49 MEAN 0.03 SE(MEAN) 0.53 ST DEV 0.02 SE(SD)	0.01 0.23
8.21 11.81	MINIMUM MAXIMUM	3.23 4.65	8.78 MINIMUM 12.63 MAXIMUM	3.46 4.97
SYMMETRY— KURICSIS—	VARIATION —VETA I —VETA II SUBJECTS	0.24 3.23	COEFF. OF VARIATION SYMMETRY—VETA I KUKTOSIS—VETA II NUMBER OF SUBJECTS	0.19 3.22
I CENTIMETI	PERCENTILES IRS	INCHES	PERCENTILES CENTINETERS	INCHES
8.47 8.71 8.84 9.00 9.21 9.34 9.44 9.53 9.60 9.68 9.75 9.82 9.89 9.97 10.04 10.13 10.22 10.32	1ST 2ND 3RD 5TH 10TH 15TH 20TH 25TH 30TH 35TH 40TH 45TH 50TH 55TH 60TH		9.19 1ST 9.35 2ND 9.44 3RD 9.57 5TH 9.76 10TH 9.89 15TH 10.00 20TH 10.09 25TH 10.18 30TH 10.25 35TH 10.33 40TH 10.40 45TH 10.40 45TH 10.48 50TH 10.55 55TH 10.63 60TH 10.70 65TH 10.79 70TH 10.88 75TH	3.62 3.68 3.72 3.77 3.84 3.90 3.94 3.97 4.01 4.04 4.07 4.10 4.12 4.15 4.18 4.22 4.25
10.44 10.57 10.75 11.02 11.19 11.30	80TH 85TH 90TH 95TH 97TH	4.11 4.16 4.23 4.34 4.40 4.45 4.52	10.98 80TH 11.11 85TH 11.26 90TH 11.49 95TH 11.63 97TH 11.74 98TH 11.90 99TH	4.32 4.37 4.43 4.52 4.58

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#### APPENDIX A

### Uses of the Dimensions

Most of the measured and derived dimensions for which data are reported in this volum: serve multiple design and sizing applications. Some, chiefly head, hard, and foot variables, are needed for the design of a particular class of item to be worn on that part of the body. All the dimensions serve at least one of the 12 application categories described below:

<u>Basic Ecdy Descriptors</u>: These are dimensions of overall body size and proportions. They are required to determine the anthropometric differences or similarities between populations. They are also used for selecting samples of subjects that are anthropometrically representative of a particular population for studies in which body size is of significance (e.g., the evaluation of the cockpit geometry in a new Army helicopter).

<u>Key Dimensions/Microxxsm Selection</u>: These dimensions serve as key occurrent dimensions for the design, sizing, producement, and issuing of clothing and personal equipment. Key dimensions for men's dress shirt sizes, for example, are often Neck Circumference and Sleeve Length. In addition, key dimensions are useful for selecting anthropometrically representative samples of test subjects for evaluating the fit and function of new items.

<u>Garrents (Clothing/Personal Equipment</u>: These dimensions are useful for the design and sizing of Army uniforms, utility garrents, and personal protective equipment (e.g., body armor, respirators, chemical protective clothing).

Clothing Manikins: These are three-dimensional forms which represent specific body sizes and shapes. They are valuable guides for the design and sizing of clothing and personal equipment worm on the body. The better the manikins represent sizes of Army man and woman, the better the fit and the less alteration required of gamments designed over them.

Lond-Carrying Systems: These dimensions are used for the design and sizing of systems worm by soldiers to carry full-field gear and other types of equipment. Isod-carrying systems are of critical importance to the combat-effectiveness and well-being of Arry troops and support personnel.

Food and Face Equipment: The dimensions in this group are used primarily in the design of personal protective equipment worm on the head and face and for the design of optical and auditory devices.

<u>Gloves</u>: These are hord, firger, wrist, and formand becomesents used in the design, sizing, and procurement of gloves and in the construction of hand force used to guide the design of gloves.

Foot Gear: These foot and ankle dimensions are needed for the design, sizing, procurement, and evaluation of shoes and boots.

Workspace and Body Clearance: Dimensions in this group are central to the design and layout of workstations occupied by Army personnel. They are also of paramount importance in the design and layout of workstations of Army weapon systems, particularly those, like aircraft, in which space is at a premium. Body clearance dimensions dictate, for example, the size of escape hatches and limited-size passageways that must be designed to allow quick and safe passage of an individual. In the field or in a depot, the performance of maintenance activities is also greatly enhanced if personnel have ready physical and visual access to maintenance and inspection ports, and have the reach capabilities to perform necessary service, repair, or replacement activities, often conducted under adverse conditions.

Aircraft Accommodation: The dimensions in this group are those that have been or are likely to be used to restrict individuals from operating aircraft with which they are anthropometrically incompatible. That is, certain aircraft do not safely and efficiently accommodate the complete range of body sizes found among aircrew personnel. Ideally, the more complete data that will be available from this survey can be used to avoid such problems in the future.

<u>Body Links</u>: These dimensions are needed for developing the link or "skeletal" system which is the foundation for all three-dimensional human models used to assess the body's reaction to hazardous environments, and for two- and three-dimensional models used in the design and evaluation of Army workstations.

Anthropomorphic Analogues: The dimensions in this group are useful for the development of four general types of models: (1) three-dimensional manikins and (2) three-dimensional computer-generated models (used to assess the body's reaction to high acceleration environments); (3) two-dimensional drawing-board manikins and (4) three-dimensional computer-generated, human-engineering analogues (used to guide the design and evaluation of workstations).

Table A-1 lists all the dimensions measured in the 1938 Anthropometric Survey, and designates the use or uses they may serve. It will be noted that Bizygomatic Breadth and Menton-Sellion Length are listed twice in the table. Both these dimensions were measured twice - once directly and once with the automated headboard device. Data from the latter should be used in concert with other three-dimensional data obtained with the headboard for designing purposes involving three-dimensional headforms. Applications for directly measured data include procurement tariffs and fitting. The information presented in this appendix and Table A-1 were taken from the 1988 Anthropometric Survey of U.S. Army Personnel: Methods and Summary Statistics¹¹.

T	ABLE A-1. Applications for the Measured and Derived Dimensions in the Army Survey.	Busic Body Descriptors	Key Dimen. Microcosms	Garments (Clothing/PE)	Clothing Manikins	Load-Carrying Systems	Head and Face Equipment	Gloves	Foot Gear	Workspace/Rody Clearance	Alrens's Armanobalen	Body Links	Anthropomorphic Andogues
(1) (D1) (2) (3) (D2)	ABDOMINAL EXTENSION DEFTH, SIT ABDOMINAL LINK ACROMIAL HEIGHT ACROMIAL HEIGHT, STITING ACROMION-AXILLA LENGTH			0 0	0	0				0		000	0000
(4) (H1) (H2) (5) (D3)	ACROMION-RADIALE LENGTH ALARE-BACK OF HEAD ALARE-TOP OF HEAD ANKLE CIRCUMFERENCE ARM LENGTH	0		0	0		0		0			0	0
(6) (D4) (D5) (7) (8)	AXILLA HEIGHT AXILLA-WAIST LENGTH (ND) AXILL A-WAIST LENGTH (O) AXILLARY ARM CIRCUMFERENCE BALL OF FOOT CIRCUMFERENCE			0000	0000	000			0				0 0
(9) (10) (11) (12) (113)	BALL OF FOOT LENGTH BIACROMIAL BREADTH BICEPS CIRCUMFERENCE, FLEXED BIDELTOID BREADTH BICONIAL BREADTH		0	000	0	0	0		0	0	0	0	0
(H4) (13) (H5) (14) (H6)	BITNEPAORDITALE PREADTH BIMALLEOLAR BEEADTH BIOCULAR BREADTH, MAREMUM BISPINOUS BREADTH BITTAGION BREADTH			ŋ			0 0		0			0	0
(15) (16) (17) (18) (19)	BITRAGION CREM ARG BITRAGION COROLLAD ARG BITRAGION FRONTAL ARG BITRAGION FRONTAL ARG BITRAGION SUMMANDIBULAR ARG						00000						

	TABLE A-1. Continued	Basic Body Descriptors	Key Dimen./Microcosms	Garments (Clothing/PE)	Clothing Manikins	Load-Carrying Systems	Head and Face Equipment	Gloves	Foot Gear	Workspace/Body Clearance	Aircraft Accommodation	Body Links	Anthropemorphic Analogues
(20) (21) (H7) (22) (23)	BITRAGION SUBNASALE ARC BIZYGOMATIC BREADTH BIZYGOMATIC BREADTH BSTPT/THELION-BSTPT/THELION BR BUTTOCK CIRCUMFERENCE		0	00	0 0	0	0 0 0						000
(24) (25) (26) (27) (28)	BUTTOCK DEPTH BUTTOCK HEIGHT BUTTOCK-KNEE LENGTH BUTTOCK-POPLITEAL LENGTH CALF CIRCUMFERENCE			000	0 0					0 0 0	0		00000
(29) (D6) (30) (31) (H8)	CALF HEIGHT CALF LINK CERVICALE HEIGHT CERVICALE HEIGHT, SITTING CHEILION-BACK OF HEAD			0	0	0	0		0			000	0000
(H9) (32) (33) (34) (35)	CHEILION-TOP OF HEAD CHEST BREADTH CHEST CIRCUMFERENCE CHEST CIRCUMFEPENCE AT SCYE CHEST CIRC BELOW BREAST		0 0	0000	0000	0 0 0	0		-				000
(36) (37) (D7) (D8) (D9)	CHEST DEPTH CHEST HEIGHT CHEST HEIGHT, SITTING CHEST-WAIST DROP (NI) CHEST-WAIST DROP (O)			00 00	0000	000				0			0
(H10) (H11) (D10) (H12) (H13)	CHIN-BACK OF HEAD CHIN-TOP OF HEAD CLAVICLE LINK CRINION-BACK OF HEAD CR'NION-TOP OF HEAD						00 00					0	0

	TABLE A-1. Continued	Basic Body Descriptors	Key Dimen./Microcosms	Germents (Clothing/PE)	Clothing Mankins	Load-Carrying Systems	Head and Face Equipment	Gloves	Foot Gear	Workspace/Rody Clearance	Aireral Accommodation	Body Links	Anthropomerphic Andogues
(38) (30) (40) (D11) (D12)	CROTCH HEIGHT CROTCH LENGTH (NI) CROTCH LENGTH (O) CROTCH LENGTH, ANTERIOR (NI) CROTCH LENGTH ANTERIOR (O)		0	00000	00000								0
(41) (42) (D13) (D14) (D15)	CROTCH LENGTH, POSTERIOR (ND) CROTCH LENGTH, POSTERIOR (O) DACTYLION HEIGHT DACTYLION REACH FROM WALL DACTYLION REACH FROM WALL, EXT			0	0					000	0		000
(43) (44) (45) (46) (H14)	EAR BREADTH EAR LENGTH EAR LENGTH ABOVE TRAGION EAR PROTRUSION ECTOORBITALE-BACK OF HEAD						00000			1			
(H15) (47) (48) (D15) (D17)	ECTOORBITALE-TOP OF HEAD ELEOW CIRCULIFIEF NOE ELBOW REST HEIGHT ELBOW REST HEIGHT, STANDING ELBOW-CENTER OF GRIP LENGTH				0		0			0000			0000
(D18) (D19) (49) (D20) (50)	ELBOW-WEIST LENGTH EYE HEIGHT, SITTING EYE-TRAGION LINK FOOT PREADTH, HORIZONTAL		0						0	000		0	00000
(51) (52) (53) (54) (54)	FOOT LENGTH FOREARM CIRCUMFERENCE, FLENED FOREARM-FOREARM DIRADTH FOREARM-HAND LENGTH FRONTOTEMPORALE-BACK OF HEAD		0	0			0		0	0	0	0	0 00

	TABLE A-1. Continued	Basic Body Descriptors	Key Dimen./Microcosms	Garments (Clothing/PE)	Clothing Manikins	Load-Carrying Systems	Head and Face Equipment	Gloves	Foot Gear	Workspace/Body Clearance	Aircraft Accommodation	Body Links	Antliropomorphic Analogues
(H17) (D21) (D22) (55) (H18)	FRONTOTEMPORALE-TOP OF HEAD FUNCTIONAL GRIP REACH, EXTENDED FUNCTIONAL LEG LENGTH GLABELLA-BACK OF HEAD						0			000	0		000
(H19) (56) (H20) (H21) (57)	GLABELLA-TOP OF HEAD GLUTEAL FURROW HEIGHT GONION-BACK OF HEAD GONION-TOP OF HEAD HAND BREADTH		0	0	0		0 0 0	0		0		·	0
(58) (59) (60) (61) (62)	HAND CIRCUMFERENCE HAND LENGTH HEAD BREADTH HEAD CIRCUMFERENCE HEAD LENGTH		00000	000			000	00		0	0	0	0000
(63) (64) (65) (66) (67)	HEEL-ANKLE CIRCUMFERENCE HEEL BREADTH HIP BREADTH, SITTING ILIOCRISTALE HEIGHT			000	0 0	0			00	0			000
(D23) (D24) (H22) (H23) (68)	INDEX FINGER REACH INDEX FINGER REACH. EXTENDED INFRAORBITALE-BACK OF HEAD INFRAORBITALE-TOP OF HEAD INTERPUPILLARY BREADTH			0			000			0		0	0 0
(69) (70) (71) (72) (73)	INTERSCYE I INTERSCYE II KNEE CIRCUMFERENCE KNEE HEIGHT, MIDPATELLA KNEE HEIGHT, SITTING			0000	0 00	O'				0			000

	TABLE A-1. Continued	Basic Body Descriptors	Key Dimen./Microcosms	Garments (Clothing/PE)	Clothing Manikins	Load-Cerrying Systems	Head and Face Equipment	Gloves	Foot Gear	Workspace/Body Clearance	Aircraft Accommodation	Body Links	Anthrepomorphic Analogues
(74) (75) (H24) (76) (H25)	LATERAL FEMORAL EPICONDYLE HT LATERAL MAILEOLUS HEIGHT LIP LENGTH LOWER THIGH CIRCUMFERENCE MAXIMUM FRONTAL BREADTH			0	0		0		0			0	0
(H26) (H27) (77) (H28) (H29)	MENTON-BACK OF HEAD MENTON-CRINION LENGTH MENTON-SELLION LENGTH MENTON-SELLION LENGTH MENTON-SUBNASALE LENGTH		0				00000						0
(H30) (78) (H31) (79) (80)	MENTON-TOP OF HEAD MIDSHOULDER HEIGHT, SITTING MINIMUM FRONTAL BREADTH NECK-BUSTPOINT/THELION LENGTH NECK CIRCUMFERENCE		0	00	00	0	0			0			0 0
(81) (82) (D25) (D26) (D27)	NECK CERCUMFERENCE, BASE NECK HEIGHT, LATERAL NECK LINK NECK-BUTTOCK LENGTH NECK-GLUTEAL FURROW LENGTH			0000	0000							0	0
(D28) (H32) (H33) (E3) (S4)	NECK-SCYE LENGTH NOSE BREADTH NOSE PROTRUSION OVERHEAD FINGERTIP REACH OVERHEAD FINGERTIP REACH, EXT			0	0	0	0			0 0			0
	OVERHEAD FINGURTEP REACH, SIF PELVIC LING POPLETIAL HEIGHT PROMAGALE-BACK OF HEAD PROMASALE-TOP OF HEAD						00			0		0	000

	TABLE A-1. Continued	Basic Body Descriptors	Key Dimen./Microcosms	Garmenta (Clothing/PE)	Clothing Manikins	Load-Carrying Systems	Head and Pace Equipment	Gloves	Foot Gear	Workspace/Body Clearance	Aircraft Accommodation	Body Links	Anthropomorphic Analogues
(87) (D30) (D31) (88) (89)	RADIALE-STYLION LENGTH RISE (NI) RISE (O) SCYE CIRCUMFERENCE SCYE DEPTH			0000	0000	0						0	
(H36) (H37) (90) (91) (92)	SELLION-BACK OF HEAD SELLION-TOP OF HEAD SHOULDER CIRCUMFERENCE SHOULDER-ELBOW LENGTH SHOULDER LENGTH		0	000	0	0	0			0			00
(D32) (D33) (D34) (93) (D35)	SHOULDER SLOPE SHOULDER-WAIST LENGTH (NI) SHOULDER-WAIST LENGTH (O) SITTING HEIGHT SLEEVE INSEAM	0	0	0000	000 0					0	0	0	0
(94) (95) (96) (97) (98)	SLEEVE LENGTH: SPINE-ELBOW SLEEVE LENGTH: SPINE-SCYE SLEEVE LENGTH: SPINE-WRIST SLEEVE OUTSEAM SPAN		0	00000	0					0	0		0
(99) (H38) (H39) (100) (H40)	STATURE STOMION-BACK OF HEAD STOMION-TOP OF HEAD STRAP LENGTH SUBNASALE-BACK OF HEAD	0	0	0	0	0	000			0		0	0
(H41) (H42) (101) (D36) (102)	SUBNASALE-SELLION LENGTH SUBNASALE-TOP OF HEAD SUPRASTERNALE HEIGHT SUPRASTERNALE HEIGHT, SITTING- TENTH RIB HEIGHT			000	0	- 1	0					0	0

	TABLE A-1. Continued	Basic Body Descriptors	Key Dimen./Microcosms	Gurments (Clothing/PE)	Clothing Manikins	Load-Carrying Systems	Head and Face Equipment	Gioves	Foot Gear	Workspace/Body Clearance	Aircraft Accommodation	Body Links	Anthropomorphic Analogues
(103) (104) (D37) (D38) (105)	THIGH CIRCUMFERENCE THIGH CLEARANCE THIGH LINK THORAX LINK THUMB EREADTH			0 0	0			0		0		0	0000
(106) (D39) (D40) (D41) (H43)	THUMBTIP REACH THUMBTIP REACH, EXTENDED TRAGION HEIGHT TRAGION HEIGHT, SITTING TRAGION-BACK OF HEAD						0			0	0		00000
(H44) (107) (D42) (D43) (D44)	TRAGION-TOP OF HEAD TROCHANTERION HEIGHT VERTICAL GRIP REACH VERTICAL GRIP REACH DOWN VERTICAL GRIP REACH, EXTENDED						0			000	00	0	0 0 0 0
(D45) (D46) (D47) (D48) (D49)	VERTICAL GRIP REACH, STITING VERTICAL INDEX FINGERTIP REACH VERTICAL INDEX FINGERTIP RCH, EXT VERTICAL INDEX FINGERTIP RCH, SIT									00000			0 0 0 0
(D50) (D51) (108) (109) (D52)	VERTICAL THUMETER REACH DOWN VERTICAL THUMBYER REACH, SITTING VERTICAL TRUNK CIRC (ASCO) VERTICAL TRUNK CIRC (USA) VERTICAL WRIST HEIGHT		0	0	Ö.Ö	00				00 0			0
	VERTICAL WRIST HEIGHT, EXTENDED VERTICAL WRIST HEIGHT, SITTING WAIST BACK LENGTH (0) WAIST BACK LENGTH (0) WAIST BACK, VERTICAL (N)			000	000	00				00			

	TABLE A-1. Continued	Basic Body Descriptors	Key Dimen,/Microcosms	Garments (Clothing/PE)	Clothing Manikins	Load-Carrying Systems	Head and Face Equipment	Glovea	Foot Gear	Workspace/Body Clearance	Aircraft Accommodation	Body Links	Anthropomorphic Analogues
(D56) (112) (113) (114) (115)	WAIST BACK, VERTICAL (O) WAIST BREADTH WAIST CIRCUMFERENCE (NI) WAIST CIRCUMFERENCE (O) WAIST DEPTH		00	00000	00000	0000							0000
(116) (117) (118) (119) (120)	WAIST FRONT LENGTH (NI) WAIST FRONT LENGTH (O) WAIST HEIGHT (NI) WAIST HEIGHT (O) WAIST HEIGHT, SITTING (NI)		0	00000	0000	0000				000			000
(121) (D57) (D58) (122) (123)	WAIST HEIGHT, STITING (O) WAIST-BUTTOCK DROP (NI) WAIST-BUTTOCK DROP (O) WAIST-HIP LENGTH WAIST (NI) - WAIST (O) LENGTH			00000	0000					0			0
(D59) (D60) (124) (125) (126)	WAIST-WAIST (NI) OVER SHOULDER WAIST-WAIST (O) OVER SHOULDER WEIGHT WRIST-CENTER OF GRIP LENGTH WRIST CIRCUMFERENCE	0	0	000 0	00			0		00	00		000
(127) (128) (129) (130) (131)	WRIST HEIGHT. WRIST HEIGHT, SITTING WRIST-INDEX FINGER LENGTH WRIST-THUMBTIP LENGTH WRIST-WALL LENGTH									00000	00		00000
(132) (H45) (H46) (H47) (H48)	WRIST-WALL LENGTH EXTENDED ZYGION-BACK OF HEAD ZYGION-TOP OF HEAD ZYGOFRONTALE-BACK OF HEAD ZYGOFRONTALE-TOP OF HEAD						0000			0			0

## APPINDIX B

### The Statistical Heasures

The statistical measures used in this reject are univariate statistics selected to provide potential users with a maximum of useful information. They are, too, the statistics that are used in other anthropometric reports prepared by the U.S. Army.

The statistics provided for each variable are the following:

1. The arithmetic room (X). This is the arithmetic average and is computed as the sum of the values divided by the number of values:

$$X = \overline{X}$$

where X is the individual measurement and N is the sample size.

2. The standard error of the mean (Seg). This is a standard deviation type of statistic and is an estimate of the sumpling error of the mean. It is computed as:

$$Se_{\chi} = \frac{SD}{\sqrt{N}}$$

where SD is the standard deviation for that variable and N is the sample size.

3. The standard deviation (SD). This is a measure of variability and is computed as:

$$SD = \sqrt{\frac{2(X-\bar{X})^2}{N}}$$

where X is the individual magnificant,  $\overline{X}$  is the mean value for that measurement, and N is the sample size.

4. The standard error of the SD (Comp). This is another measure of variability and is an estimate of the sampling error of the SD. It is computed as:

$$So_{SD} = \frac{SD}{\sqrt{2N}}$$

where SD is the standard deviation of the variable of interest and N is the sample size.

- 5. Minimum. The smallest observed value for a particular variable.
- 6. Maximum. The largest observed value for a particular variable.
- 7. N. The number of subjects measured for a particular variable.
- 8. Symmetry  $(\beta_1)$ . A dimensionless statistic that is an indicator of whether a set of data is symmetrically distributed. It is computed as:

$$\beta_1 = \frac{\sum (X - \overline{X})^3}{N * SD^3}$$

where X is the individual measurement,  $\overline{x}$  is the mean of that measurement, N is the sample size, and SD is the standard deviation of the measurement. The normal distribution value for  $\beta_1$  is 0.

- 9. <u>Kurtosis</u>  $(\beta_2)$ . A dimensionless statistic that indicates the level of agreement between a normal distribution and the actual distribution of the data. The normal distribution value for  $\beta_2$  is 3.
- 10. The coefficient of variation. A statistic that restates the standard deviation as a percent of the mean and is computed as:

$$CV = 100 * \underline{SD}$$

where  $\bar{x}$  is the mean and SD is the standard deviation of a measurement.

11. The percentiles. This group of statistics represents measures of order or position. These measures can be thought of as being obtained by arranging the data in order from the smallest to the largest and then observing the value of the datum which lies at a specified position in the array. The 99 percentiles - ranging from the first to the 99th - are the values at the points which separate consecutive blocks or units of 1% of the data in the ordered array. The first percentile is the value which separates the smallest 1% of the data from the 99% of the data with larger values; the second percentile separates the smallest 2% from the larger 98% and so on. Twenty-five of these percentiles which are believed to be most useful to designers and engineers have been included for each measurement.

The calculation of the percentiles were a precedure developed by Edmurd Churchill specifically for anthroporatric survey data; it is described in detail in Hertzberg et al., 1963. The percentile values are first calculated by routine interpolation within the cumulative frequency distribution. These values are then smoothed by the use of a fourth-degree polynomial in terms of round-curve deviates. The procedure approximates a graphic process of deriving percentiles using normal probability paper. The information presented in this appendix was taken from the 1983 Anthropometric Survey of U.S. Army Personnel: Methods and Summary Statistics.

#### APPENDIX C

Comparability of 1988 Anthropometric Survey Dimensions with Dimensions of Other Large-Scale Surveys

The primary objective of this appendix is to document the comparability of the 1983 Anthropometric Survey dimensions with like or similarly named dimensions measured in other large-scale anthropometric surveys. Data from surveys are frequently used to compare body-size distributions among and between populations, e.g., males and females, occupational groups, racial groups, age categories. A particularly vexing problem in drawing conclusions from such comparisons is whether differences between the data are reflecting roal population differences or are the result of using different techniques to measure what may be described or named as the same dimension. Differences in landwark definitions, subject positioning, instruments and their techniques of use can and do lead to significantly different regults.

It is particularly important that the body-size comparability among U.S. military populations be Incwn. Items of personal protective equipment, clothing, and weepen systems are sometimes designed to be used by more than one U.S. military convice and/or by allied services in other countries. In recent years, design for corresplity of use among NATO services has received increased emphasis. This kind of cooperative effort requires knowledge of population distributions of dimensions which form the basis for sizing, procurement and issue of protective equipment, and determination of the comparability of persons who may be called upon to use often-restrictive workspaces, as in the case of pilots from one country undergoing training in another nation's aircraft.

Dimensions measured in the 1935 Anthreparetric Survey are compared to like or similarly named dimensions measured in six earlier U.S. and two foreign military surveys and two surveys of U.S. civilians. Data from the earlier military surveys serve as the basis for the design of current equipment, clothing, and systems. Henry of these, or course, will remain in military inventories for some time.

The following means were used to judge the comparability of the 1938 Anthropometric Survey dimensions to other survey dimensions:

- published descriptions of the dimensions and how they were measured.
- 2. published definitions of the lumberts used.
- 3. knowledge of measuring and landworking techniques observed in the field by John T. McComville and/or Charles E. Clauser during five of the six U.S. military surveys and personal interaction with the principal investigators of all the other surveys except O'Brien's¹³.
- 4. exemination of samely statistics.

Table C-1 presents the comparability of the 1988 Anthropometric Survey data to data from the other surveys listed. The following codes are used:

- C COMPARABLE The landmarks and measuring techniques used are of such comparability that differences between data from surveys can be considered to reflect real anthropometric differences between populations.
- PC PROBABLY COMPARABLE -- Differences in landmark definitions and/or measuring techniques are of insufficient magnitude to make the resulting data inappropriate to use for most human engineering purposes such as the sizing, design, procurement, and issuing of military equipment or assessing the suitability of assigning personnel to restrictive workspaces.
- NC NOT COMPARABLE Landmark differences and measuring techniques are believed to be different enough so that dimensions so coded should not be used as the basis for answering any population comparison questions.
- ${\tt CU-COMPARABILITY~UNKNOWN--Most}$  of the dimensions receiving this designation are bust-related dimensions found among those measured in the O'Brien effort. In this survey a bandeau instead of a bra was worn and comparability cannot be determined. Data from the few other dimensions coded CU reflect discrepancies for which no explanation is readily apparent.

The comparability between derived dimensions reported here and like dimensions measured directly in other surveys is, and will remain, unknown without extensive analyses. Therefore, derived dimensions do not appear in this table.

Although the automated headboard was a unique measuring device, the technique was sufficiently similar in principle to older headboard measuring techniques to make comparisons valid. A general comparison of headboard data from the 1988 Anthropometric Survey to headboard data from the 1967 and 1968 Air Force survey and the 1970 Anny survey of Aviators demonstrates that the coefficients of variation in the 1988 Anthropometric Survey data are smaller than the coefficients of variation of like dimensions from the other three surveys. These smaller coefficients are believed to indicate that a more stable subject head position was achieved using the automated headboard than could be achieved with headboards used in previous surveys. The information presented in this appendix and Table C-1 were taken from the 1988 Anthropometric Survey of U.S. Army Personnel: Methods and Summary Statistics 1.

TABLE C-1. ANSUR Dimensions: Assessment of Comparability with Other Surveys.  C = comparable NC = not comparable CU = comparability unknown PC = probably comparable	USN ' 6, 17	USA '66 19	USA '70 7	USAF '67 ²⁹	RAF 2,030 20	ਸੂ 21	USAF '63 Women 22	USA '77 Women ²³	Mrs 24	O'Brien ¹⁶
(1) ABDOMINAL EXTENSION DEPTH, SIT (2) ACROMIAL HEIGHT (3) ACROMIAL HEIGHT, STITING (4) ACROMION-RADIALE LENGTH (H1) ALARE-BACK OF HEAD		HC.			NC	CF	PC	C.		0
(H2) ALARE-TOP OF HEAD  (5) ANKLE CIRCUMFERENCE  (6) AXILLA HEIGHT  (7) AXILLARY ARM CIRCUMFERENCE  (8) BALL OF FOOT CIRCUMFERENCE	C	შ 70			C NC		C C	0000	NC	C C
(9) BALL OF FOOT LENGTH (10) BIACROMIAL BREADTH (11) BICEPS CIRCUMFERENCE, FLEXED (12) PIDELTOID BREADTH (H3) BIGONIAL BREADTH	NC C PC	C	С С С С С	C NC C C	C .	NC C C	NC C C PC	C C NC		NC
(H4) BUNFRACRBITALE BREADTH (13) BIMALLEOLAR BREADTH (H5) BIOCULAR BREADTH, MAXIMUM (14) BISPINOUS BREADTH (H6) BITRAGION BREADTH	PC	PC	FC	C PC			PC	<u> </u>		
(15) BITRAGION CHIN ARC (16) BITRAGION CORONAL ARC (17) BITRAGION CRIMON ARC (18) BITRAGION FRONTAL ACC (19) BITRAGION SUBMANDIBULAR ARC	000		C	CCC	С	С	С	C C		
(20) BITRAGION SUBM. TALE ARC (21) BIZYGOMATIC BREADTH (HT) BIZYGOMATIC BREADTH (22) BSTPT/THELION-ESTPE/THELION BR (23) BUTTOCK CIRCUMPERENCE	C C C C	PC	C PC C	C C F C	ļ	C PC C	C PC C	C PC C		NC

	TABLE C-1. Continued	USN ' 64	USA '66	USA '70	USAF '67	RAF 2,000	CF.	USAF '68 Women	USA '77 Women	HES	O'Brien
(24) (25) (26) (27) (28)	BUTTOCK DEPTH BUTTOCK HEIGHT BUTTOCK-KNEE LENGTH BUTTOCK-POPLITEAL LENGTH CALF CIRCUMFERENCE	C AC C	NC NC C	NC NC C	NC	NC C	NC	C C C C C C C			NC NC NC C
(29) (30) (31) (H8) (H9)	CALF HEIGHT CERVICALE HEIGHT CERVICALE HEIGHT, SITTING CHEILION-BACK OF HEAD CHEILION-TOP OF HEAD	ИС	C NC	C NC	C NC			С	PC C		CC
(32) (33) (34) (35) (36)	CHEST BREADTH CHEST CIRCUMFERENCE CHEST CIRCUMFERENCE AT SCYE CHEST CIRC BELOW BREAST CHEST DEPTH		PC		PC PC C	PC	PC	PC PC CU PC C	PC	NC NC	CU CU
(37) (H10) (H11) (H12) (H13)	CHEST HEIGHT CHIN-BACK OF HEAD CHIN-TOP OF HEAD CRINION-BACK OF HEAD CRINION-TOP OF HEAD	CU			CU PC			CU PC			NC
(38) (39) (40) (41) (42)	CROTCH HEIGHT CROTCH LENGTH (NI) CROTCH LENGTH (O) CROTCH LENGTH, POSTERIOR (N') CROTCH LENGTH, POSTERIOR (C)	PC	PC		PC NC	PC	PC	PC	PC		NC
(43) (44) (45) (46) (H14)	EAR BREADTH EAR LENGTH EAR LENGTH ABOVE TRAGION EAR PROTRUSION ECTOORBITALE-BACK OF HEAD	CC			NC C C C			CC	CC		

	TABLE C-1. Continued	13N ' 64	USA '68	USA '70	USAF '67	RAF 2,000	CF	USAF '63 Women	USA '77 Women	IES	O'Drien
(H15) (47) (48) (49) (50)	ECTOORBITALE-TOP OF HEAD ELBOW CIRCUMFERENCE ELBOW EEST HEIGHT EYE HEIGHT, SITTING FOOT BREADTH, HOWIZONTAL	PC C	CC	PC C C	C PC C C	PC PC	C	00	CC		ИС
(51) (52) (53) (54) (H16)	FOOT LENGTH FOREARM CIRCUMFERENCE, FLEXED FOREARM-FOREARM BREADTH FOREARM-HAND LENGTH FRONTOTEMPORALE-BACK OF HEAD	C 2C C	C PC C	C ₽C C	000	PC C	С	00	C PC		NC
(H17) (55) (H18) (H19) (56)	FRONTOTEMPORALE-TOP OF HEAD FUNCTIONAL LEG LENGTH GLABELLA-PACK OF HEAD GLABELLA-TOP OF HEAD GLUTEAL FURROW HEIGHT	C		NC PC	PC	NC		C	0 00 00 00 0		
(H20) (H21) (57) (58) (59)	GONION-BACK OF HEAD GONION-TOP OF HEAD HAND BEFADTH HAND CIRCUMFERENCE HAND LENGTH	200	C C PC	CCC	000		C PC	000	00 00 0		
(60) (61) (62) (63) (64)	HEAD BREADTH HEAD CIRCUMFLRENCE HEAD LENGTH HEEL-ANUIS CIRCUMFLRENCE HEEL ERPAUTH	000	00000	000000	0000	C N C N C	C C C	000	00000 20000		
(65) (66) (67) (H22) (H23)	HIP BREADTH HIP BREADTH, SITTING LIOCRISTALE HEIGHT INTRAORUITALE-BACK OF HEAD INTRAORUITALE-TOP OF HEAD	PC	CCC	PC NC	TO NO			PC NC		С	

	TABLE C-1. Continued	USN ' 64	05A '66	USA '70	USAF '67	RAF 2,000	CF	USAF '68 Women	USA '77 Women	HES	O'Brien
(68) (69) (70) (71) (72)	INTERPUPULIARY BREADTH INTERSCYE I INTERSCYE II KNEE CIRCUMFERENCE KNEE HEIGHT, MIDPATELLA	NC C	NC C	NC C	NC NC C PC			C C	NC NC PC NC		ИС
(73) (74) (75) (H24) (76)	KNEE HEIGHT, SITTING LATERAL FEMORAL EPICONDYLE HT LATERAL MALLEOLUS HEIGHT LIP LENGTH LOWER THIGH CIRCUMFERENCE	cu	CU PC	NC PC	C PC CU	NC		CU	NC		PC
(H25) (H26) (H27) (77) (H28)	MAXIMUM FRONTAL BREADTH MENTON-BACK OF HEAD MENTON-CRINION LENGTH MENTON-SELLION LENGTH MENTON-SELLION LENGTH	CU	C PC	NC NC		ис	C PC	NC	NC PC NC NC		
(H29) (H30) (78) (H31) (79)	MENTON-SUBNASALE LENGTU MENTON-TOP OF HEAD MIDSHOULDER HEIGHT, SITTING MINIMUM FRONTAL BREADTH NECK-BUSTPOINT/THELION LENGTH		С	С	NC C PC	NC		С	NC PC NC		NC
(80) (81) (82) (H32) (H33)	NECK CIRCUMFERENCE NECK CIRCUMFERENCE, BASE NECK HEIGHT, LATERAL NOSE BREADTH NOSE PROTRUSION	C PC CU	С	С	NC PC		ИС	NC	NC PC		NC
(83) (84) (85) (86) (H34)	OVERHEAD FINGERTIP REACH OVERHEAD FINGERTIP REACH, EXT OVERHEAD FINGERTIP REACH, SIT POPLITEAL HEIGHT PRONASALE-BACK OF HEAD			CNCPC			,		PC NC PC		cu

	TABLE C-1. Continued	USN ' 64	0S.V.66	02, V5U	USAF '67	EAF 2,000	Ę	USAF '03 Women	USA '77 Wemen	HES	O'Brica
(H35) (87) (88) (89) (H36)	PRONASALE-TOP OF HEAD RADIALE-STYLION LENGTH SCYE CIRCUMFERENCE SCYE DEPTH SELLION-BACK OF HEAD	c cu	C CU	C CU	CU C CU			c c cr	CU C CIJ		NC CU
(H37) (\$0) (91) (92) (93)	SELLION-TOP OF HEAD SHOULDER CIRCUMFERENCE SHOULDER-ELBOW LENGTH SHOULDER LENGTH STUTING HEIGHT	G NG G	0 2 C C	C PC NC C	NC	NC		C NC C	CU CO PC CO PC CO	С	ИС
(94) (95) (96) (97) (93)	SLEEVE LENGTH: SPRIE-ELBOW SLEEVE LENGTH: SPINE-SCYE SLEEVE LENGTH: SPINE-WRIST SLEEVE OUTSEAM CPAN	C	ис	С	ИС ИС ИС		C C	C PC NC			NC
(99) (H38) (H39) (100) (H40)	STATURE STOMION-BACK OF HEAD STOMION-TOP OF HEAD STRAP LENGTH SUBMASALE-BACK OF HEAD	C	С	С	C PC CU	NC	С	C CU NC PC		NC	С
(H41) (H42) (101) (102) (103)	SUBNASALE-SELLION LENGTH SUBNASALE-TOP OF HEAD SUPRASTEENALE HEIGHT TENTH PIB HEIGHT THICH CROUMFERENCE	PC C	C	C	PC PC C	C			PC CU C		
(164) (105) (106) (144) (1444)	THIGH CLEARANCE THUMB DREADTH THUMBYTP REACH TRACION-PACK OF HEAD TRACION-TOP OF HEAD	CU	PC PC	DC.	PG PG	PC	PC	PC PC	PC CU CU CU		

	TABLE C-1. Continued					0		Women	Women ·		
		USN, 64	USA '65	USA 770	USAF '67	RAF 2,000	යි	USAF '68 Women	USA "77	HES	O'Brien
(107) (108) (109) (110) (111)	TROCHANTERION HEIGHT VERTICAL TRUNK CIRC (ASCC) VERTICAL TRUNK CIRC (USA) WAIST BACK LENGTH (NI) WAIST BACK LENGTH (O)	ис	1	CU		С	С	NC PC			CU
(112) (113) (114) (115) (116)	WAIST BREADTH WAIST CIRCUMFERENCE (NI) WAIST CIRCUMFERENCE (C) WAIST DEPTH WAIST FRONT LENGTH (NI)	NC CU NC	С	С	000		С	NC NC		CU	
(117) (118) (119) (120) (121)	WAIST FRONT LENGTH (O) WAIST HEIGHT (NI) WAIST HEIGHT (O) WAIST HEIGHT, STTTING (NI) WAIST HEIGHT, STTTING (O)	CU	С	С	NC C			ис			
(122) (123) (124) (125) (126)	WAIST-HIP LENGTH WAIST (NI) - WAIST (O) LENGTH WEIGHT WRIST-CENTER OF GRIP LENGTH WRIST CIRCUMFERENCE	C	С	C NC		C	С	CCC	C	NC	C
(127) (128) (129) (130) (131)	WRIST HEIGHT WRIST HEIGHT, SITTING WRIST-INDEX FINGER LENGTH WRIST-THUMBTIP LENGTH WRIST-WALL LENGTH				С						
(132) (H45) (H46) (H47) (H48)	WRIST-WALL LENGTH EXTENDED ZYGION-BACK OF HEAD ZYGION-TOP OF HEAD ZYCOFRONTALE-BACK OF HEAD ZYGOFRONTALE-TOP OF HEAD										

## APPENDIX D

## A Glossary of Anatomical and Anthroposatric Terms

anatomical directions (e.g., superior, medial, anterior) are referenced (see Figure D-1).

amtarior - pertaining to the front of the body; as opposed to posterior.

axillary - partaining to the ampit (axilla).

bi — a prefix denoting connection with or relation to each of two symmetrically paired parts.

biceps (brochii) — the large muscle on the anterior surface of the upper arm.

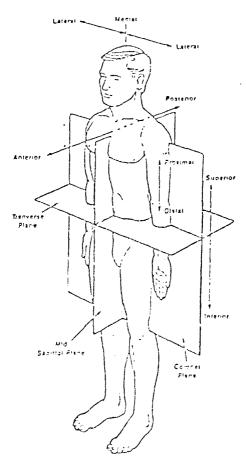


Figure D-1. The tody in the energated position.

canthus - a corner or angle formed by the meeting of the eyelids.

coronal plane — any vertical plane at right angles to the midsagittal plane (see Figure D-1).

deltoid muscle — the muscle that forms the flesh of the lateral side of the upper third of the upper arm.

distal — the end of a bone or body segment farthest from the head; as opposed to proximal (see Figure D-1).

dorsal - pertaining to the back of the body or one of its parts (on the hand, its top surface as opposed to its palmar surface).

epicontyle — the bony eminence at the distal end of the humerus, radius, and femur.

extend — to move adjacent segments so that the angle between them is increased, as when the leg is straightened; as opposed to flex.

femoral epicondyle — the bony projections on either side of the distal end of the femur.

fear - the thigh bone.

flex — to move a joint in such a direction as to bring together the two parts which it connects, as when the elbow is bent; as opposed to extend.

fossa — a depression, usually somewhat longitudinal in shape, in the surface of a part, as in a bone.

Frankfort plane — the standard horizontal plane or orientation of the head. The plane is established by a line passing through the right tragion (approximate earhole) and the lowest point of the right orbit (eye socket).

frontal bone - the bone that underlies the forehead.

hyperextend - to overextend a limb or other part of the body.

iliac — pertaining to an ilium, which is one of the three fused bones that form one side of the pelvis.

iliac crest — the superior rim of a pelvic bone.

ilium — the largest and superior bone of the three fused bones that form one side of the pelvis.

inferior — below, in relation to another structure; lower (see Figure D-1).

lateral — lying near or toward the sides of the body; as opposed to medial (see Figure D-1).

latissisms down — the large muscle covering the lower half of the back above the waist and converging on the upper arm in such a way that its flesh forms the posterior border of the axilla (ampit).

malleoli — rounded bony projection on either side of the ankle. The lateral malleolus, on the cutside of the ankle, is at the distal end of the fibula (one of the two bones of the calf); the medial malleolus, on the inside of the ankle, is at the distal end of the tibia (shinbone).

mandible - the jawbone.

mastoid process — lowest bony projection tchird and below the ear. It can best be felt immediately behind the earlebe.

medial — lying near or toward the midline of the body; as opposed to lateral (see Figure D-1).

metacarreghalangeal joint — a joint (knuckle) formed by the juncture of a finger bone (phalanx) with the palm bone (metacarpal).

metatarecphalangeal joint — a joint formed by the juncture of a toe bone (phalanx) with the foot bone (metatareal).

midsegittal place — the vertical plane which divides the body into right and left halves (see Figure D-1).

olecranen -- the proximal end of the ulna (elbow).

palmar — pertaining to the palm side of the hard; as opposed to its dorsal surface.

patella - the kneecap.

phalam - a finger or toe bone.

pisiform — a wrist bone on the little firgor side of the hard at the base of the palm. It can be felt as a keny protuberance just below the fleshy pad at the base of the palm.

plantar -- pertaining to the sole of the foot.

poster'or -- pertaining to the back of the body; as opposed to anterior (see Figure D-1).

provinal — the end of a bone or body segment measure the head; as appeared to distal (see Figure D-1).

radius -- the bone of the forearm on the thurb side of the arm.

saye -- a tailering term referring to the archole of a garment.

superior — above, in relation to enother structure; higher (see Figure D-1).

supra - prefix designating above or on.

temporal crest — a ridge originating on the zygomatic process of the frontal bone and extending along the lateral aspect of the skull.

theracic — pertaining to the thorax; in this text, pertaining especially to the vertebra to which the ribs are attached.

thorax — that part of the trunk between the neck and the abdomen enclosed by the rib cage.

trapezius — the large muscle that originates on the neck and the upper half of the back and converges on the shoulder between midshoulder and acromion.

vertebra — a bone of the spine. In humans there are seven cervical (neck), 12 thoracic (chest), five lumbar (lower back), five sacral (fused), and four caudal (tail) vertebrae.

zygomatic arch — the bony arch below and to the side of the orbit of the skull extending horizontally along the side of the head from the cheekbone (the zygomatic bone) nearly to the external ear.

zygomatic bone — a bone of the face underlying the upper part of the cheek.

The information presented in this appendix was taken from the 1988 Anthrocometric Survey of U.S. Army Personnel: Methods and Summary Statistics 1.

## APPENDIK E

# The Bicgraphical Data Form US ARMY ANTHROPCHETRIC SURVEY (ANSUR)

BIOGRAPHICAL DATA: MILITARY HISTORY

TOE	MAY'S DATE:/ Month Da	/ y Year	тора	\Y'S F0ST: .	
1.	Name:(Last)	•••••	(First)	•••••••	(Middle)
2.	Unit to which you are	e assigned a	it this post:		
(Co	mpany) (Battalion/Ent	tary/Group)	./(Ar igade/	/ 'Rag imant)	(Division)
3.	Military Component:	//	Regular Arm	ny	
		<i>//</i>	Army Reserv	'a	
		1.,/	Hational Gu	ard	
١.	Military Personnel Cl	ass:			
	// Enlisted				
	// Warrant Offi	car (Spe <b>c</b> if	y Branch:	• • • • • • • • • • • • • • • • • • • •	)
	// Commissioned	Officer (S	pecify Dranc	<b>ከ:</b>	)
5.	Rank/Grade:	/	(e.g., LT	C / 05)	
5.	Time in Service:	Years, .	Months	(e.g., 2 Y	ears, 4 Months)
· .	MOS: (Pri	mary) .	(5	econdary)	
3.	With which hand do yo	u usually f	ire a veapon	?	
	// Right	/	/ Left	//	Eithor Hand
}.	Mith which eye do you	usually si	ght your wee	ron?	
	// Right	//	Left	//	Either Eye
		5.0	11		

# The Bicgraphical Data Form (continued)

US ARMY ANTHROPOMETRIC SURVEY (ARSUR)

BIOGRAPHICAL DATA: PERSONAL HISTORY

1.	Your Birt	hdate:	(Month)	(Day)	(Year)	
2.	Age:	•••••	Years			
3.	Sex:	//	Male			
		//	Female			
4.	Race:	//	White, not	of Hispan	ic origin	
		/ <b></b> /	Black, not	of Hispan	ic origin	
		//	Hispanic			
		//	Asian/Paci	fic Island	er	
		1/	American I	ndian/Alas	kan Native	
		//	Mixed (Spe	cify:	• • • • • • • • • • • •	)
		//	Other (Spe	cify:		<i>.</i> )
5.	How tall	are you	in bare fee	t? Feet	Inches	(e.g., 5' 8")
6.	How much	do you w	eigh withou	t clothes?	• • • • • •	Pounds
7.	Do you we	ar: /.	/ Presc	ription Gl	asses?	
		1.	/ Presc	ription Co	ntact Lenses	?
		/.	/ Both?			
		/.	/ Neith	er?		
8.	With whic	h hand d	o you usual	ly write?		
	//	Right	/	/ Left	7	/ Either Hand

## The Biographical Data Form (continued)

9. Do you currently participate in resistance or free-weight training a least once a week?			
// Yes			
// No			
If you answered "No", go to question 10.			
If you answared "Yes", complete quastions 9a, 95, and 9c.			
<ul> <li>a. How long have you been involved in this training?</li> <li> Years, Nonths (Exemple: 2 Years, 7 Honths)</li> <li>b. How many days per week do you now train?</li> </ul>			
			Upper body: Days per week
			Lower body: Days per week
c. On the days that you train, how many hours per day do you train			
Upper body: Hours par day			
Lower body: Hours per day			
Do you currently run on a regular basis?			
// Yes			
// κο			
If you answered "No", go to question 11.			
If you answered "Yes", complete questions 10s, 10b, and 10c.			
a. How long have you been running?			
Years, Months (Example: 3 Years, 9 Months)			
b. How many days per week do you now run?			
Days per week			
c. On the days that you run, how many miles do you usually cover?			
Miles			

The Bicgraphical Data Form (continued)			
η.	Your Birthplace:		
12.	Mother's Birthpla	ce:	
13.	Father's Birthplace:		
14.	Mother's Race:	// White, not of Hispanic origin	
		// Black, not of Hispanic origin	
	.*	// Hispanic	
		// Asian/Pacific Islander	
		// American Indian/Alaskan Native	
		// Mixed (Specify:)	
		// Other (Specify:)	
15.	Father's Race:	// White, not of Hispanic origin	
		// Black, not of Hispanic origin	
		// Hispanic	
		// Asian/Pacific Islander	
		// American Indian/Alaskan Native	
		// Mixed (Specify:)	
		// Other (Specify:)	
		DO NOT WRITE BELOW THIS LINE	
C1 12 487 48		,	
16.	Ethnicity/Nationa	11 Extraction: 17. Body Dimensions	
	Subject:		

Actual Height .....

Actual Weight .....

Mother: .....

Father: